FIG.1

PRIOR ART

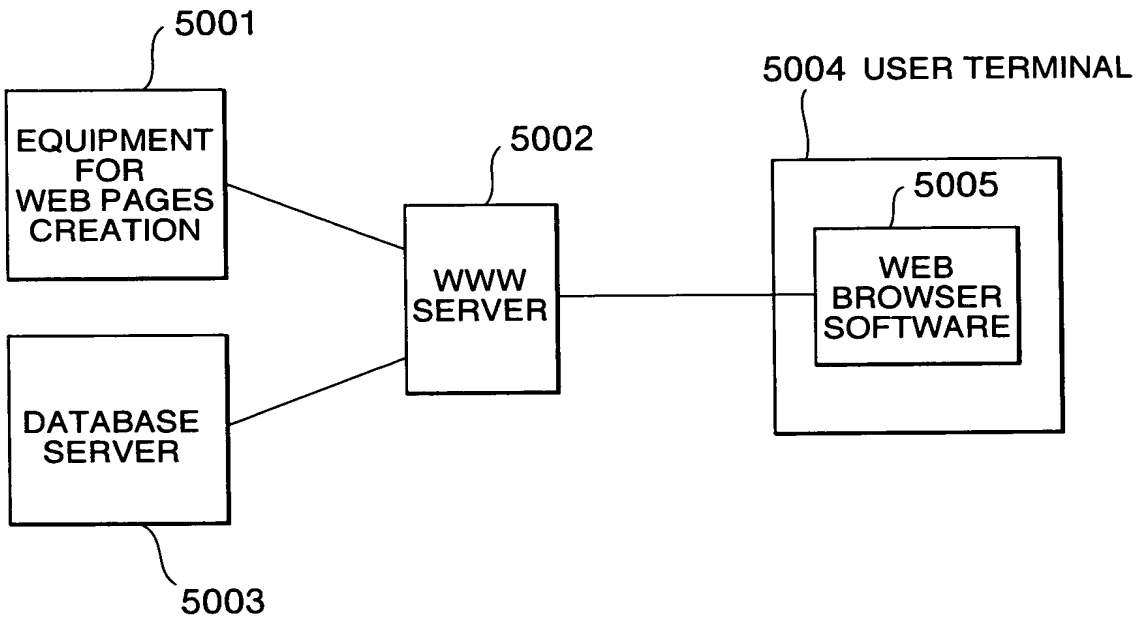


FIG.2

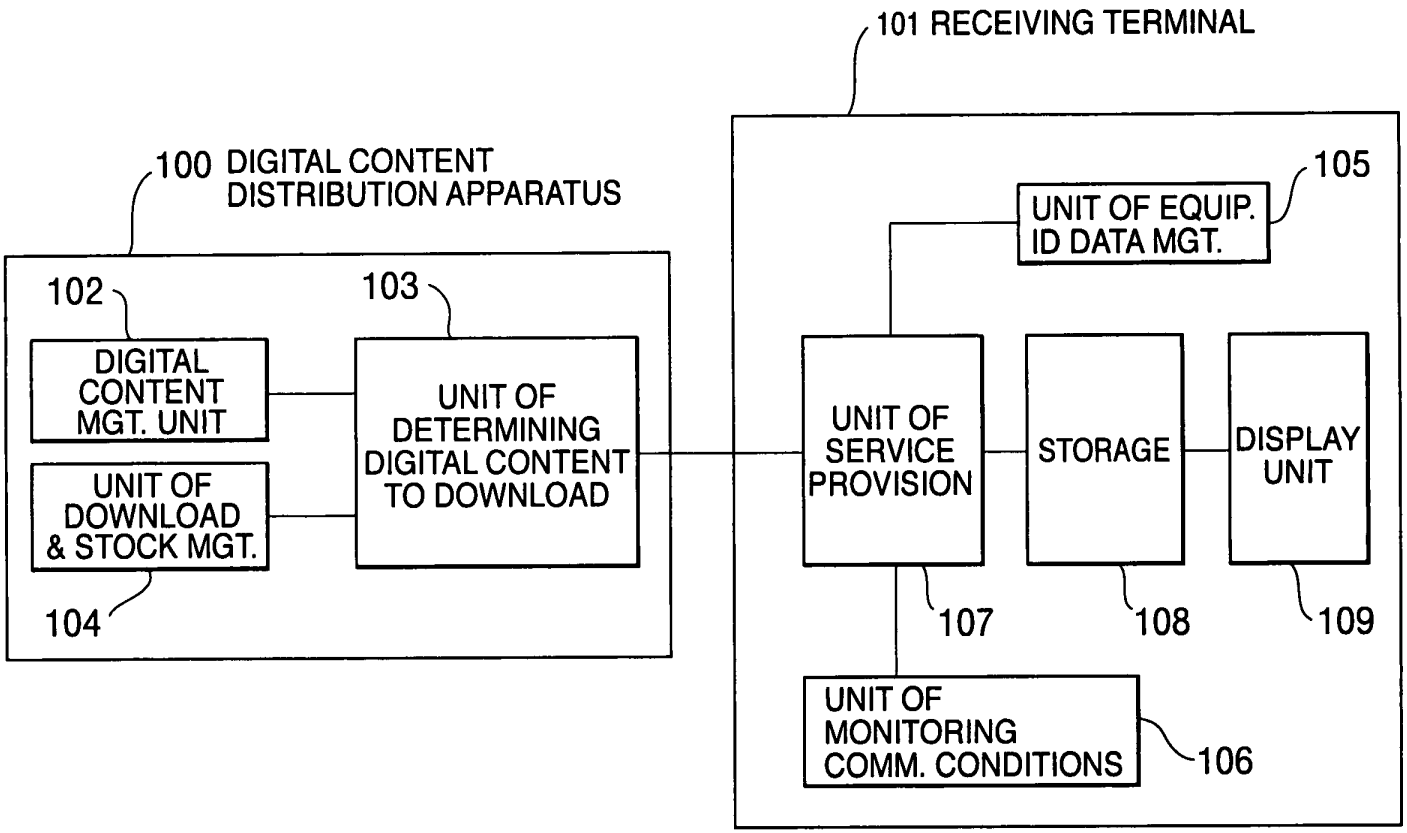

101 RECEIVING TERMINAL
100 DIGITAL CONTENT DISTRIBUTION APPARATUS
102
103
DIGITAL CONTENT MGT. UNIT
UNIT OF DOWNLOAD & STOCK MGT.
UNIT OF DETERMINING DIGITAL CONTENT TO DOWNLOAD
104
105
UNIT OF EQUIP. ID DATA MGT.
UNIT OF SERVICE PROVISION
STORAGE
DISPLAY UNIT
107
108
109
UNIT OF MONITORING COMM. CONDITIONS
106

FIG.3

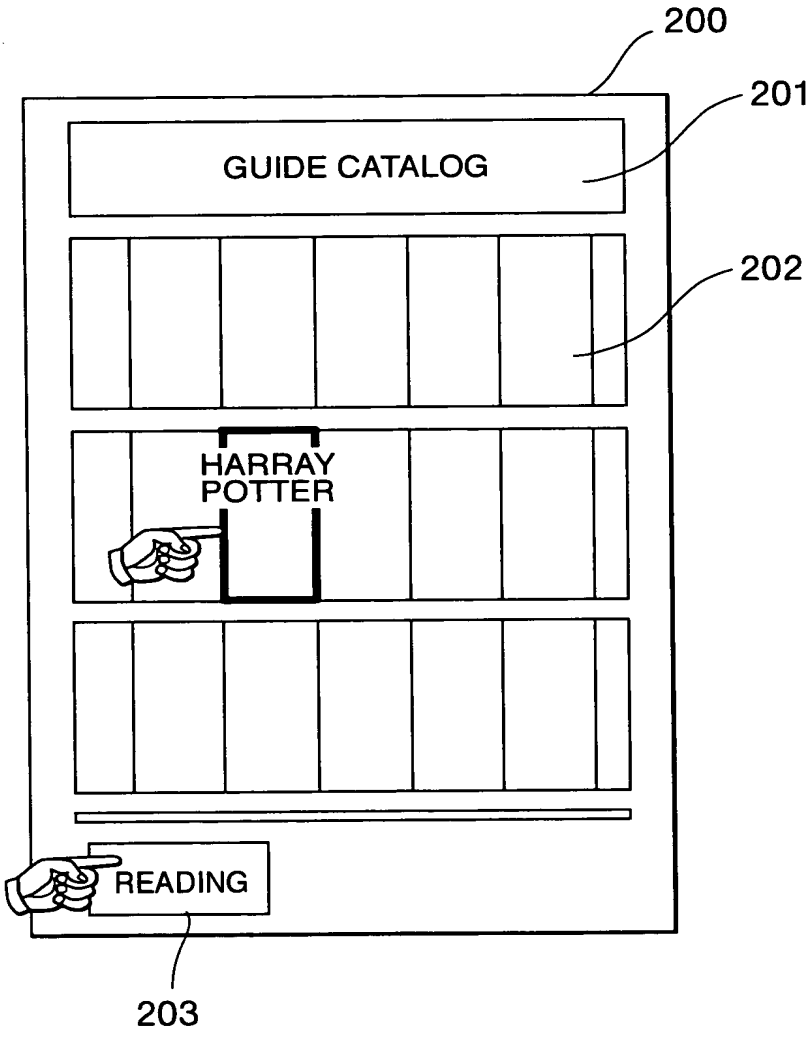


FIG.4

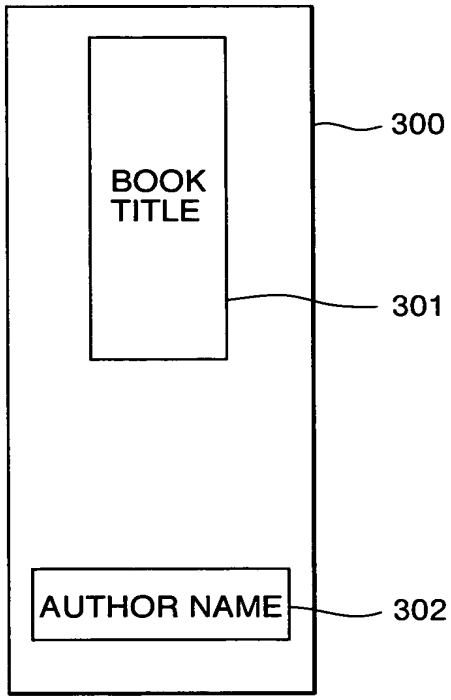


FIG.5

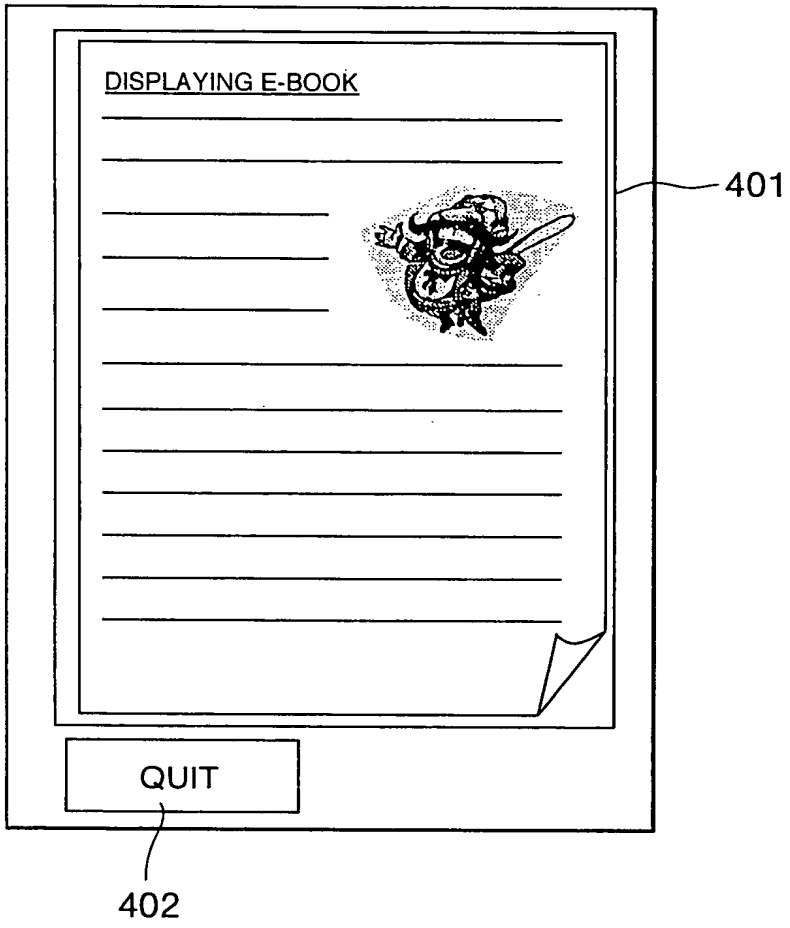


FIG.6

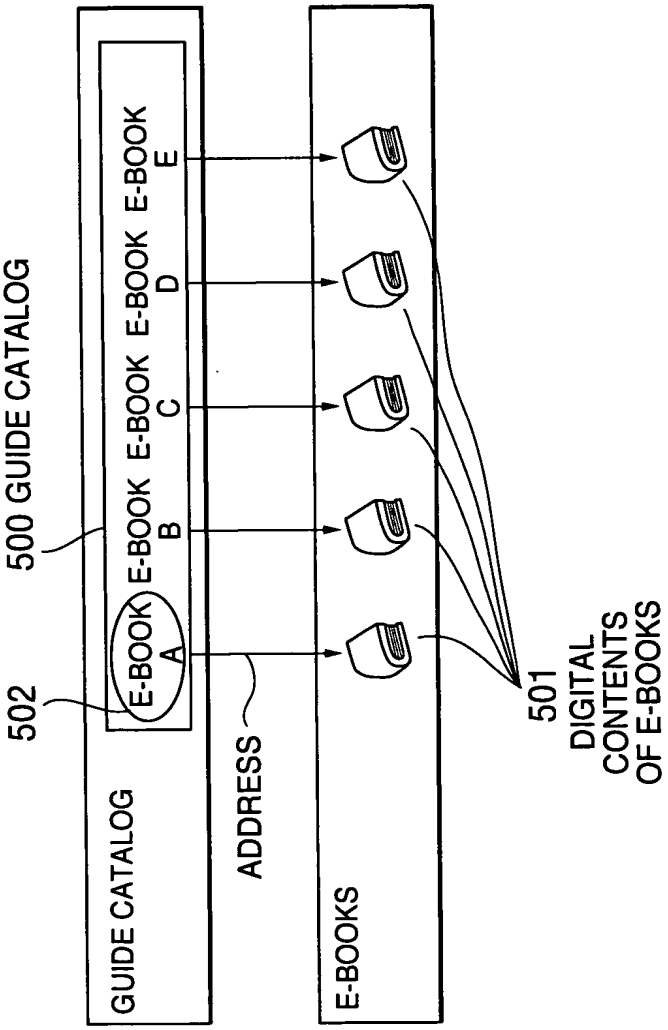

500 GUIDE CATALOG
502
GUIDE CATALOG
E-BOOK A
E-BOOK B
E-BOOK C
E-BOOK D
E-BOOK E
ADDRESS
E-BOOKS
501
DIGITAL CONTENTS OF E-BOOKS

FIG.7

600 CONTENT ITEM NO.	601 E-BOOK TITLE	602 AUTHOR	603 GENRE	604 PUBLICATION DATE	605 SUMMARY	606 FILE SIZE	607 FILE NAME
1	TITLE1	AUTHOR-1	NOVELS	2002-6-1	.....	10M	FILE-1
2	TITLE2	AUTHOR-2	COMICS	2002-6-1	.....	5M	FILE-2
3	TITLE3	AUTHOR-3	NOVELS	2002-6-2	.....	5M	FILE-3
4	TITLE4	AUTHOR-4	COMICS	2002-6-3	.....	10M	FILE-4
5	TITLE5	AUTHOR-5	WEEKLY MAGAZINE	2002-6-4	.....	10M	FILE-5
6	TITLE6	AUTHOR-6	HISTORY	2002-6-4	.....	5M	FILE-6
7	TITLE7	AUTHOR-7	MONTHLY MAGAZINE	2002-6-5	.....	10M	FILE-7
8	TITLE8	AUTHOR-8	NOVELS	2002-6-8	.....	15M	FILE-8
9	TITLE9	AUTHOR-9	COMICS	2002-6-9	.....	10M	FILE-9
10	TITLE10	AUTHOR-10	NOVELS	2002-6-9	.....	5M	FILE-10
11	TITLE11	AUTHOR-11	COMICS	2002-6-10	.....	10M	FILE-11
12	TITLE5	AUTHOR-5	WEEKLY MAGAZINE	2002-6-10	.....	5M	FILE-12
13	TITLE13	AUTHOR-13	HISTORY	2002-6-11	.....	10M	FILE-13
14	TITLE14	AUTHOR-14	COMICS	2002-6-8	.....	5M	FILE-14
15	TITLE15	AUTHOR-15	NOVELS	2002-6-10	.....	5M	FILE-15
16	TITLE16	AUTHOR-16	NOVELS	2002-6-10	.....	5M	FILE-16
17	TITLE17	AUTHOR-17	COMICS	2002-6-13	.....	10M	FILE-17
18	TITLE18	AUTHOR-18	NOVELS	2002-6-13	.....	5M	FILE-18
19	TITLE19	AUTHOR-19	COMICS	2002-6-13	.....	10M	FILE-19
20	TITLE5	AUTHOR-5	WEEKLY MAGAZINE	2002-6-16	.....	10M	FILE-20

FIG.8

700 EQUIP. ID	701 LAST DOWNLOAD DATE	702 CAPACITY	703 SPACE AVAILABLE	704 E-BOOKS STOCKED	705 E-BOOKS DUE TO BE REMOVED	706 E-BOOKS DUE TO BE DOWNLOADED & STOCKED
MAC-1	2002-6-9	2G	5M	1~14	1~5	15~20 (45M)
.....	.....	.....	.....	.....	.....	.....

FIG.9

EQUIP. ID	MAC-1

FIG.10

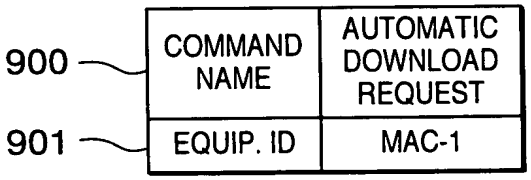


FIG.11

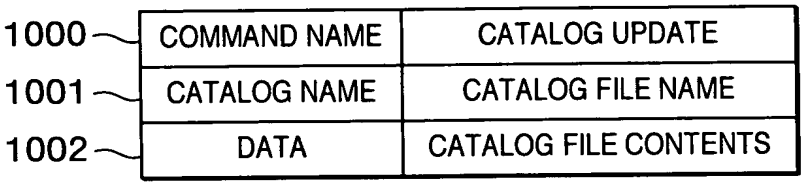


FIG.12

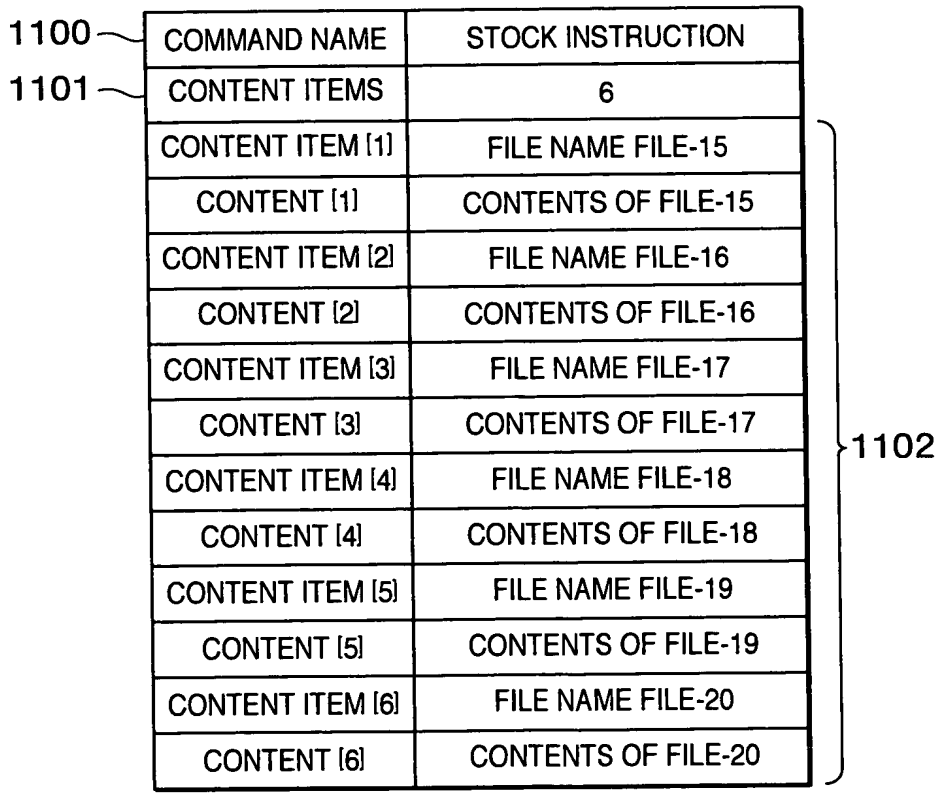


FIG.13

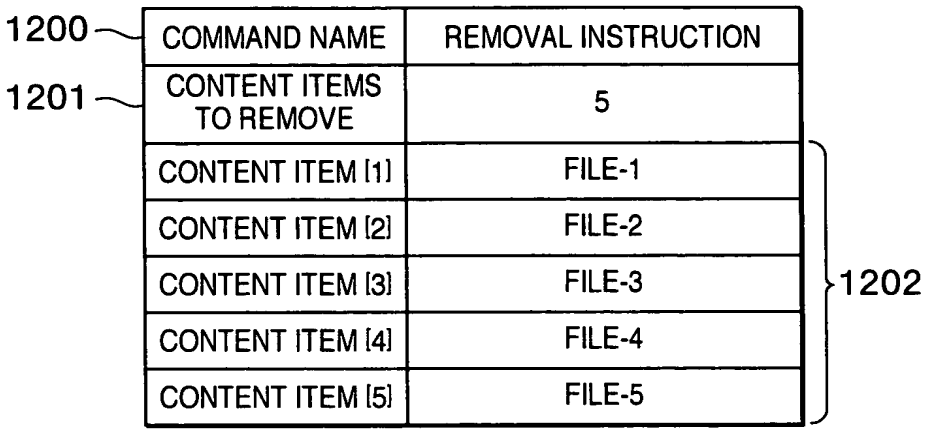

1200
COMMAND NAME
REMOVAL INSTRUCTION
1201
CONTENT ITEMS TO REMOVE
5
CONTENT ITEM [1]
FILE-1
CONTENT ITEM [2]
FILE-2
CONTENT ITEM [3]
FILE-3
CONTENT ITEM [4]
FILE-4
CONTENT ITEM [5]
FILE-5
1202

FIG.14

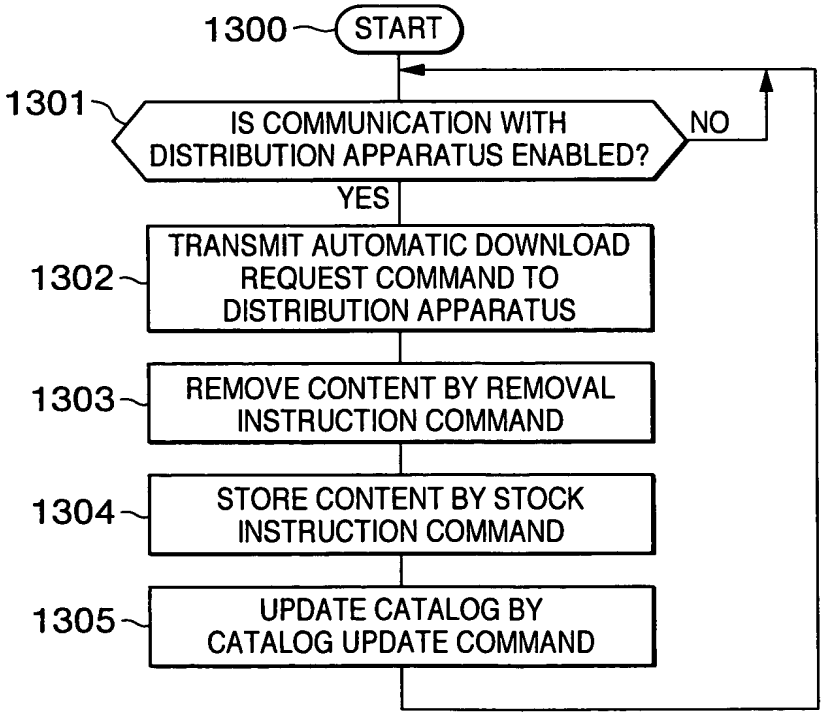

1300
START
1301
IS COMMUNICATION WITH DISTRIBUTION APPARATUS ENABLED?
NO
YES
1302
TRANSMIT AUTOMATIC DOWNLOAD REQUEST COMMAND TO DISTRIBUTION APPARATUS
1303
REMOVE CONTENT BY REMOVAL INSTRUCTION COMMAND
1304
STORE CONTENT BY STOCK INSTRUCTION COMMAND
1305
UPDATE CATALOG BY CATALOG UPDATE COMMAND

FIG.15

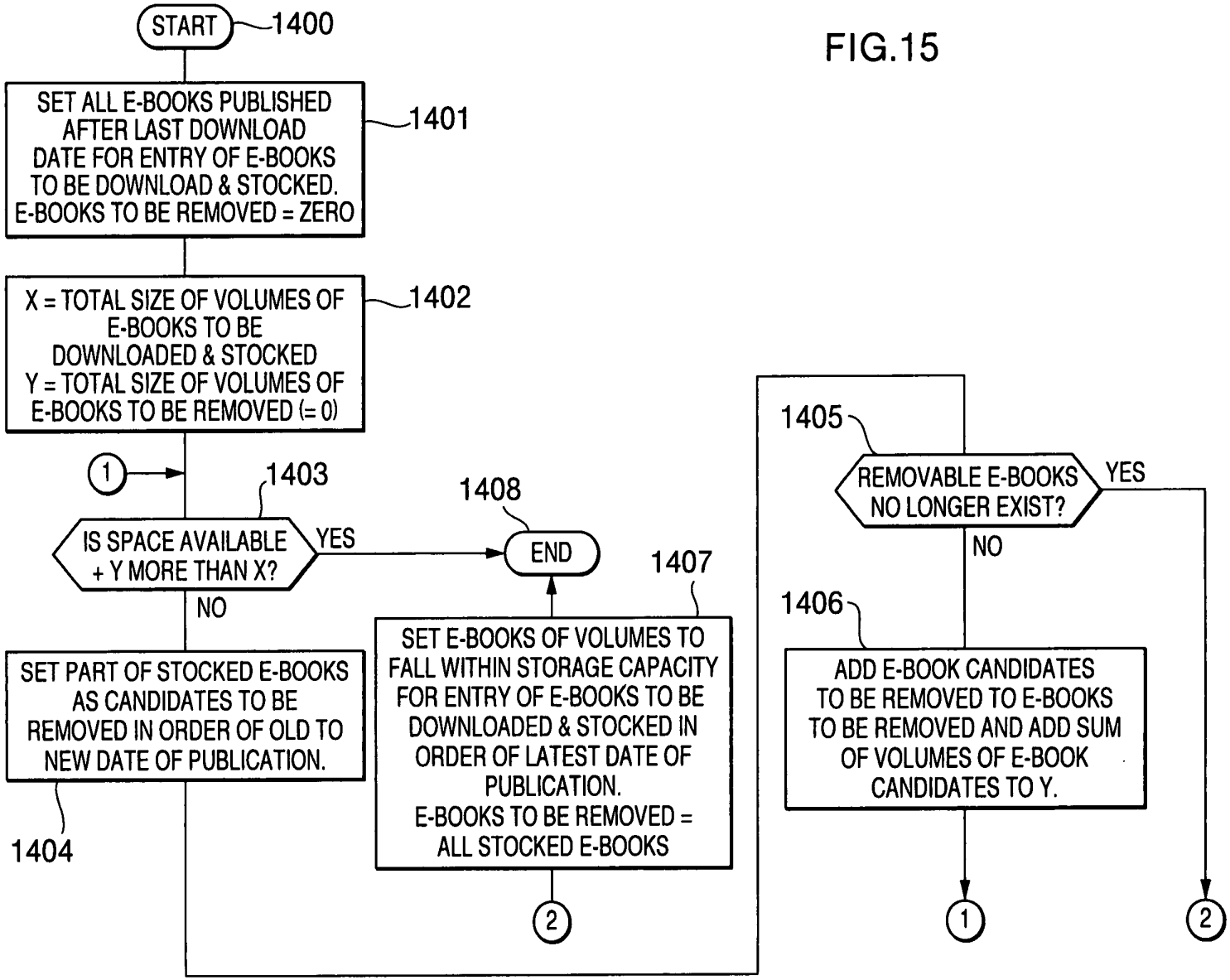

START
1400
SET ALL E-BOOKS PUBLISHED AFTER LAST DOWNLOAD DATE FOR ENTRY OF E-BOOKS TO BE DOWNLOAD & STOCKED. E-BOOKS TO BE REMOVED = ZERO
1401
X = TOTAL SIZE OF VOLUMES OF E-BOOKS TO BE DOWNLOADED & STOCKED
Y = TOTAL SIZE OF VOLUMES OF E-BOOKS TO BE REMOVED (= 0)
1402
1
1403
IS SPACE AVAILABLE + Y MORE THAN X?
YES
NO
1408
END
1407
SET E-BOOKS OF VOLUMES TO FALL WITHIN STORAGE CAPACITY FOR ENTRY OF E-BOOKS TO BE DOWNLOADED & STOCKED IN ORDER OF LATEST DATE OF PUBLICATION.
E-BOOKS TO BE REMOVED = ALL STOCKED E-BOOKS
2
SET PART OF STOCKED E-BOOKS AS CANDIDATES TO BE REMOVED IN ORDER OF OLD TO NEW DATE OF PUBLICATION.
1404
1405
REMOVABLE E-BOOKS NO LONGER EXIST?
YES
NO
1406
ADD E-BOOK CANDIDATES TO BE REMOVED TO E-BOOKS TO BE REMOVED AND ADD SUM OF VOLUMES OF E-BOOK CANDIDATES TO Y.
1
2

FIG.16

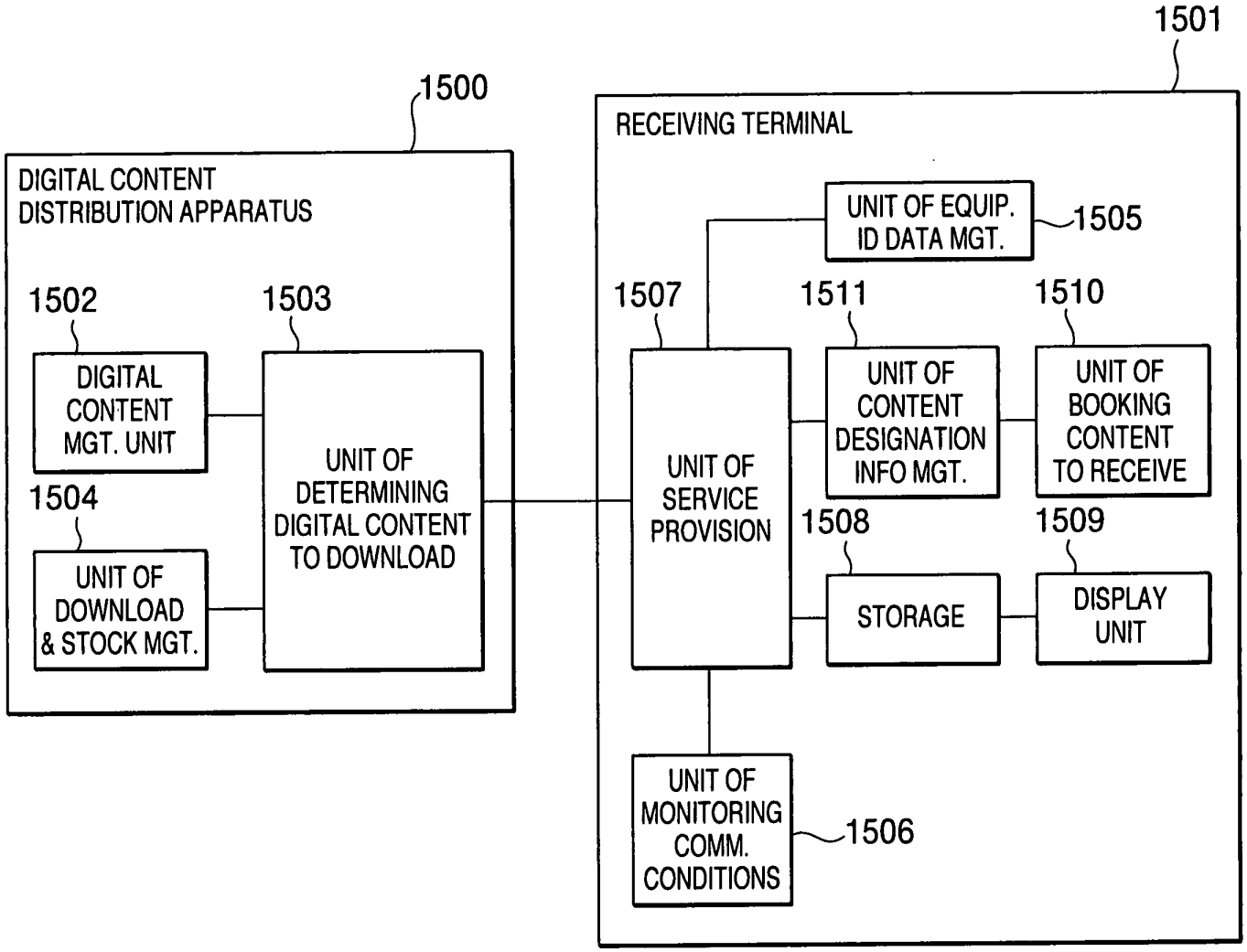

1501
1500
RECEIVING TERMINAL
DIGITAL CONTENT
DISTRIBUTION APPARATUS
UNIT OF EQUIP.
ID DATA MGT.
1505
1502
1503
1507
1511
1510
DIGITAL
CONTENT
MGT. UNIT
UNIT OF
DETERMINING
DIGITAL CONTENT
TO DOWNLOAD
UNIT OF
SERVICE
PROVISION
UNIT OF
CONTENT
DESIGNATION
INFO MGT.
UNIT OF
BOOKING
CONTENT
TO RECEIVE
1504
1508
1509
UNIT OF
DOWNLOAD
& STOCK MGT.
STORAGE
DISPLAY
UNIT
UNIT OF
MONITORING
COMM.
CONDITIONS
1506

FIG.17

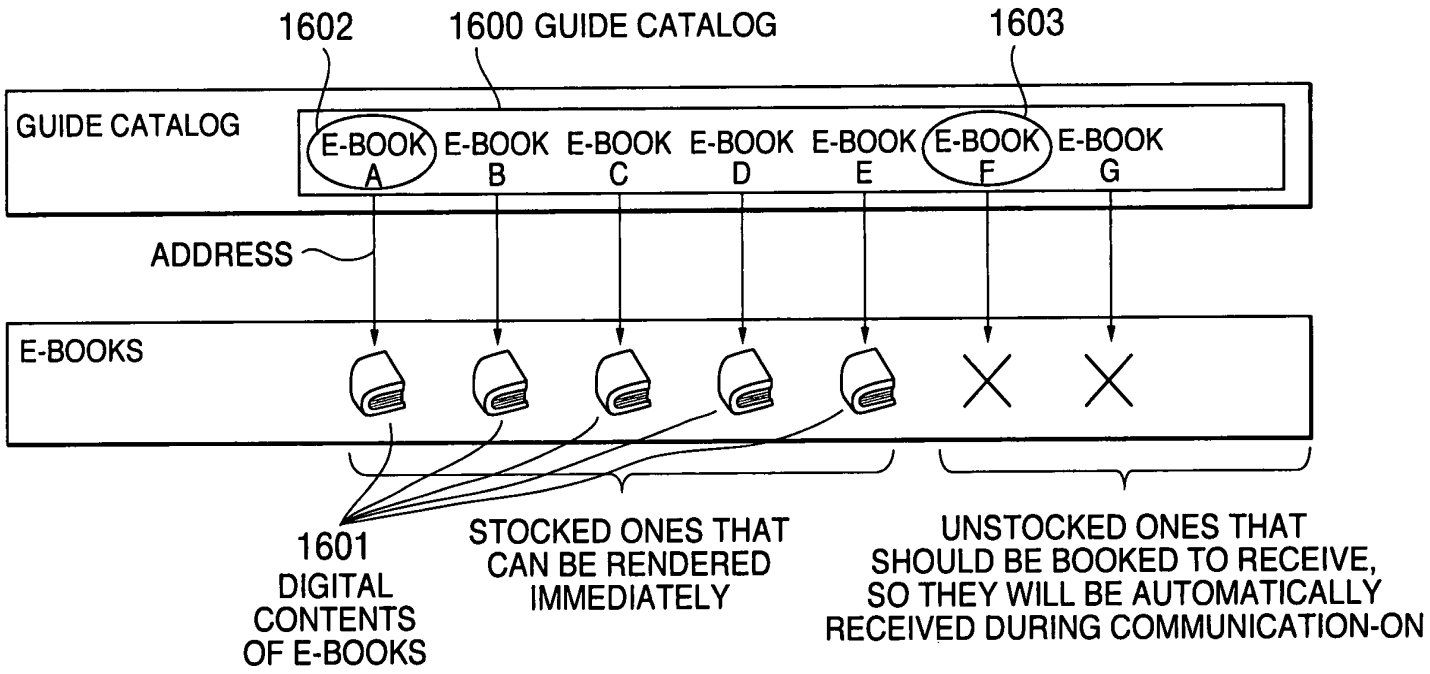

1602
1600 GUIDE CATALOG
1603
GUIDE CATALOG
E-BOOK A
E-BOOK B
E-BOOK C
E-BOOK D
E-BOOK E
E-BOOK F
E-BOOK G
ADDRESS
E-BOOKS
1601
DIGITAL CONTENTS OF E-BOOKS
STOCKED ONES THAT CAN BE RENDERED IMMEDIATELY
UNSTOCKED ONES THAT SHOULD BE BOOKED TO RECEIVE, SO THEY WILL BE AUTOMATICALLY RECEIVED DURING COMMUNICATION-ON

FIG.18

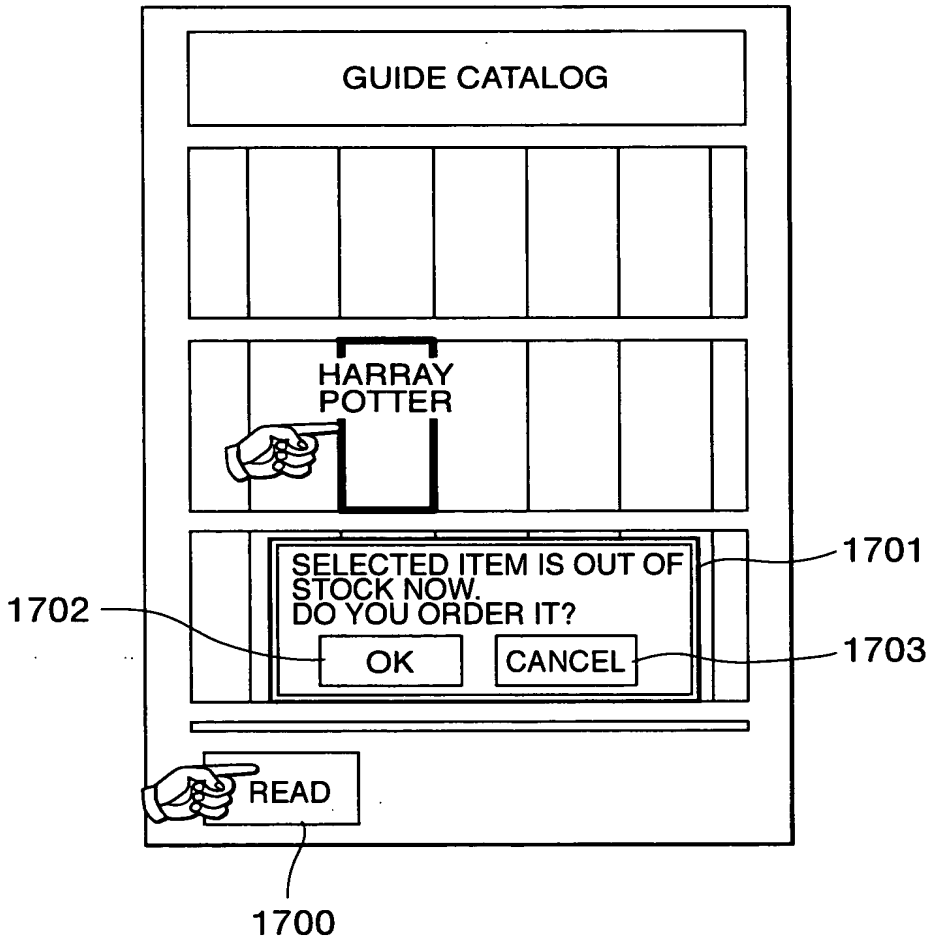

GUIDE CATALOG
HARRAY POTTER
SELECTED ITEM IS OUT OF STOCK NOW.
DO YOU ORDER IT?
OK
CANCEL
READ
1700
1701
1702
1703

FIG.19

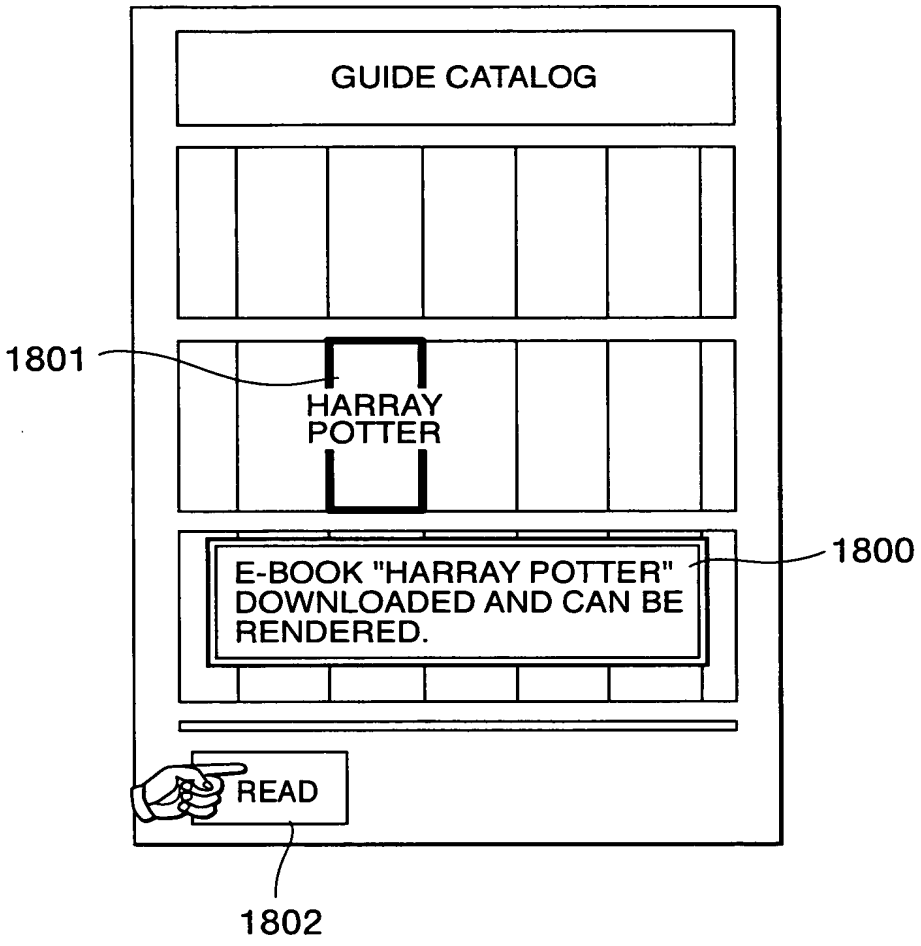

GUIDE CATALOG
1801
HARRAY
POTTER
E-BOOK "HARRAY POTTER"
DOWNLOADED AND CAN BE
RENDERED.
1800
READ
1802

FIG.20

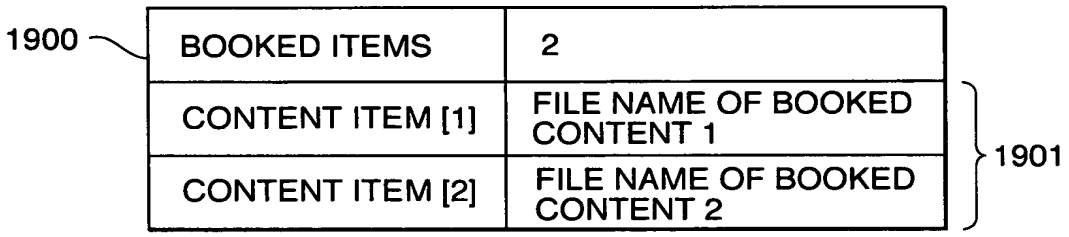

1900
BOOKED ITEMS
2
CONTENT ITEM [1]
FILE NAME OF BOOKED CONTENT 1
CONTENT ITEM [2]
FILE NAME OF BOOKED CONTENT 2
1901

FIG.21

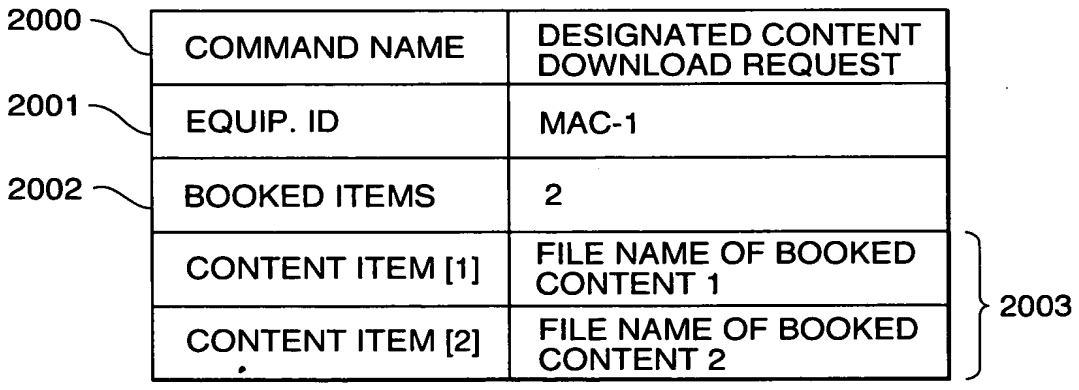
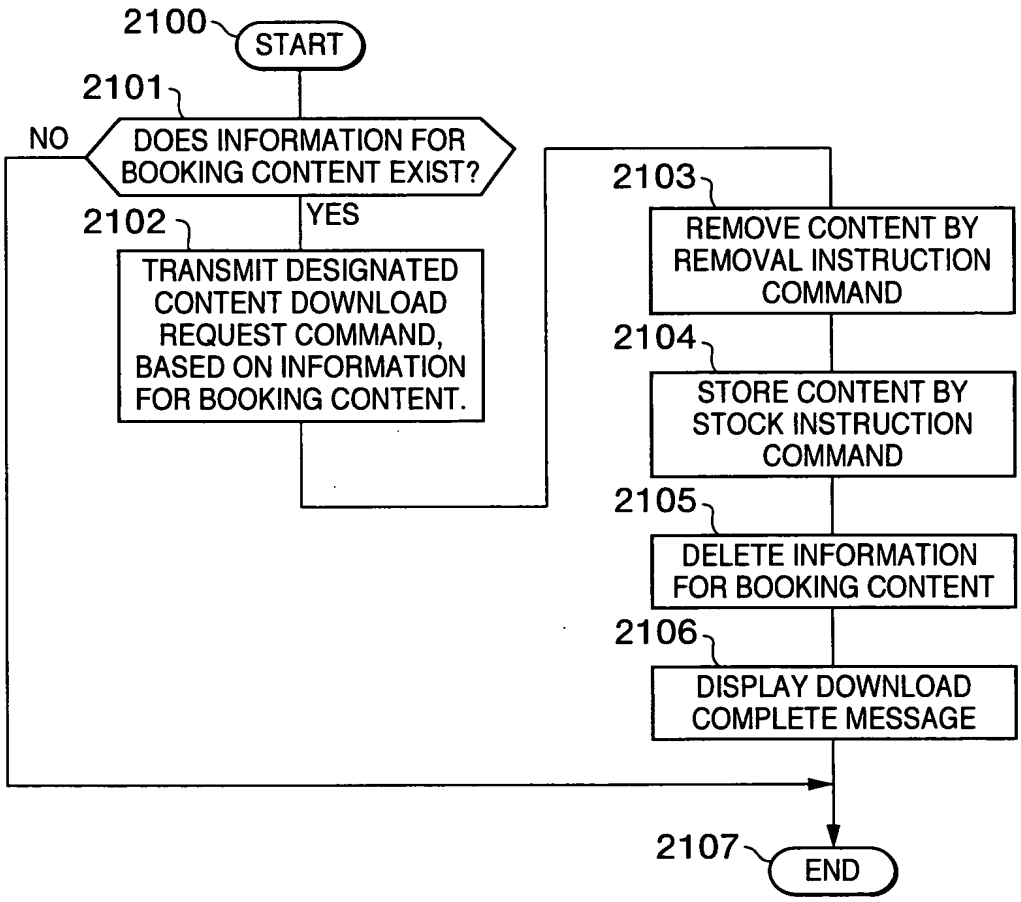

2000
COMMAND NAME
DESIGNATED CONTENT DOWNLOAD REQUEST
2001
EQUIP. ID
MAC-1
2002
BOOKED ITEMS
2
CONTENT ITEM [1]
FILE NAME OF BOOKED CONTENT 1
CONTENT ITEM [2]
FILE NAME OF BOOKED CONTENT 2
2003

FIG.22


2100
START
2101
DOES INFORMATION FOR BOOKING CONTENT EXIST?
NO
YES
2102
TRANSMIT DESIGNATED CONTENT DOWNLOAD REQUEST COMMAND, BASED ON INFORMATION FOR BOOKING CONTENT.
2103
REMOVE CONTENT BY REMOVAL INSTRUCTION COMMAND
2104
STORE CONTENT BY STOCK INSTRUCTION COMMAND
2105
DELETE INFORMATION FOR BOOKING CONTENT
2106
DISPLAY DOWNLOAD COMPLETE MESSAGE
2107
END

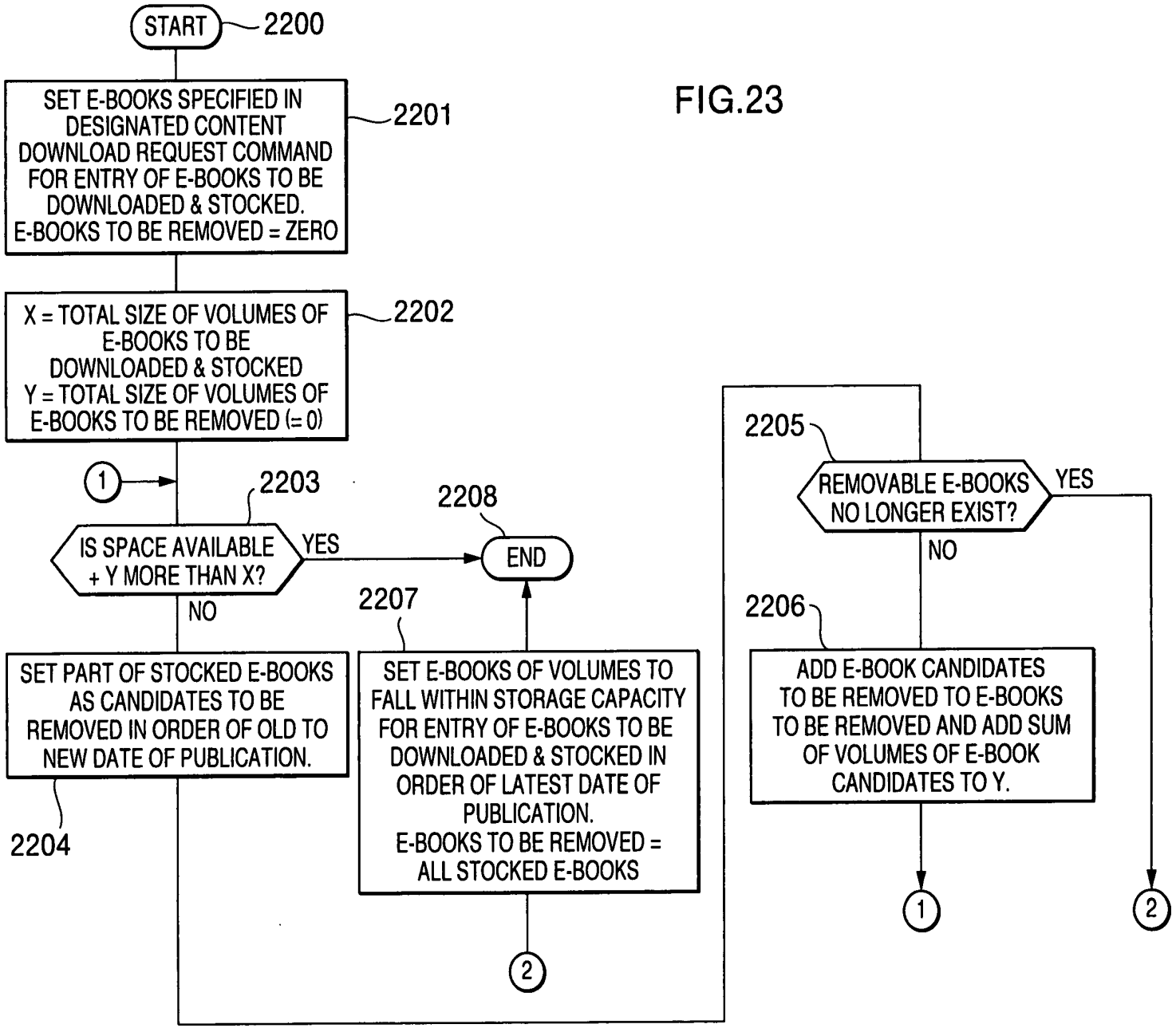

START
2200
SET E-BOOKS SPECIFIED IN DESIGNATED CONTENT DOWNLOAD REQUEST COMMAND FOR ENTRY OF E-BOOKS TO BE DOWNLOADED & STOCKED. E-BOOKS TO BE REMOVED = ZERO
2201
X = TOTAL SIZE OF VOLUMES OF E-BOOKS TO BE DOWNLOADED & STOCKED Y = TOTAL SIZE OF VOLUMES OF E-BOOKS TO BE REMOVED (= 0)
2202
1
2203
IS SPACE AVAILABLE + Y MORE THAN X?
YES
2208
END
NO
2207
SET PART OF STOCKED E-BOOKS AS CANDIDATES TO BE REMOVED IN ORDER OF OLD TO NEW DATE OF PUBLICATION.
2204
SET E-BOOKS OF VOLUMES TO FALL WITHIN STORAGE CAPACITY FOR ENTRY OF E-BOOKS TO BE DOWNLOADED & STOCKED IN ORDER OF LATEST DATE OF PUBLICATION. E-BOOKS TO BE REMOVED = ALL STOCKED E-BOOKS
2
2205
REMOVABLE E-BOOKS NO LONGER EXIST?
YES
NO
2206
ADD E-BOOK CANDIDATES TO BE REMOVED TO E-BOOKS TO BE REMOVED AND ADD SUM OF VOLUMES OF E-BOOK CANDIDATES TO Y.
1
2

FIG.23

FIG.24

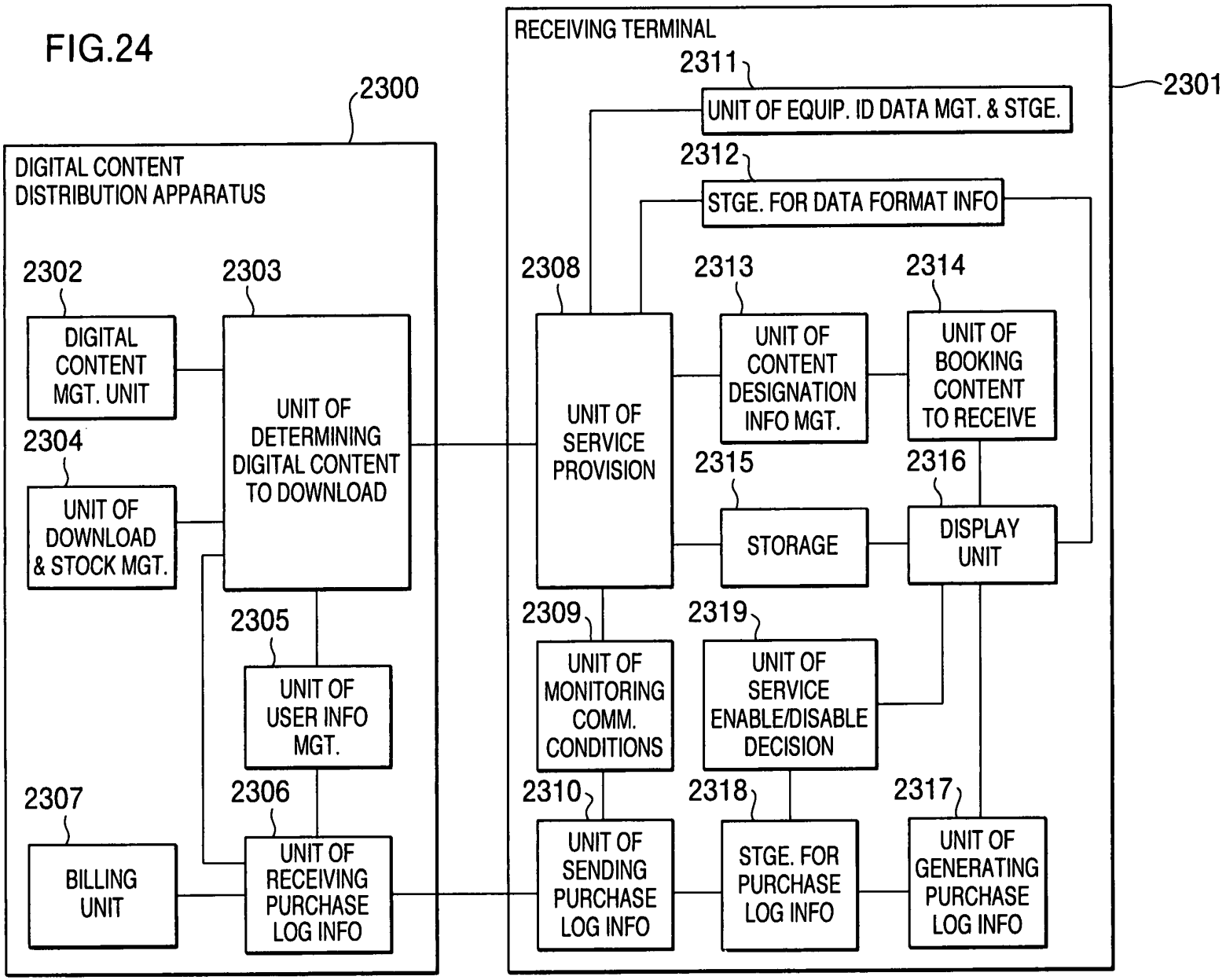

2300
DIGITAL CONTENT DISTRIBUTION APPARATUS
2302
DIGITAL CONTENT MGT. UNIT
2303
UNIT OF DETERMINING DIGITAL CONTENT TO DOWNLOAD
2304
UNIT OF DOWNLOAD & STOCK MGT.
2305
UNIT OF USER INFO MGT.
2306
UNIT OF RECEIVING PURCHASE LOG INFO
2307
BILLING UNIT
RECEIVING TERMINAL
2301
2311
UNIT OF EQUIP. ID DATA MGT. & STGE.
2312
STGE. FOR DATA FORMAT INFO
2308
UNIT OF SERVICE PROVISION
2313
UNIT OF CONTENT DESIGNATION INFO MGT.
2314
UNIT OF BOOKING CONTENT TO RECEIVE
2315
STORAGE
2316
DISPLAY UNIT
2309
UNIT OF MONITORING COMM. CONDITIONS
2319
UNIT OF SERVICE ENABLE/DISABLE DECISION
2310
UNIT OF SENDING PURCHASE LOG INFO
2318
STGE. FOR PURCHASE LOG INFO
2317
UNIT OF GENERATING PURCHASE LOG INFO

FIG.25

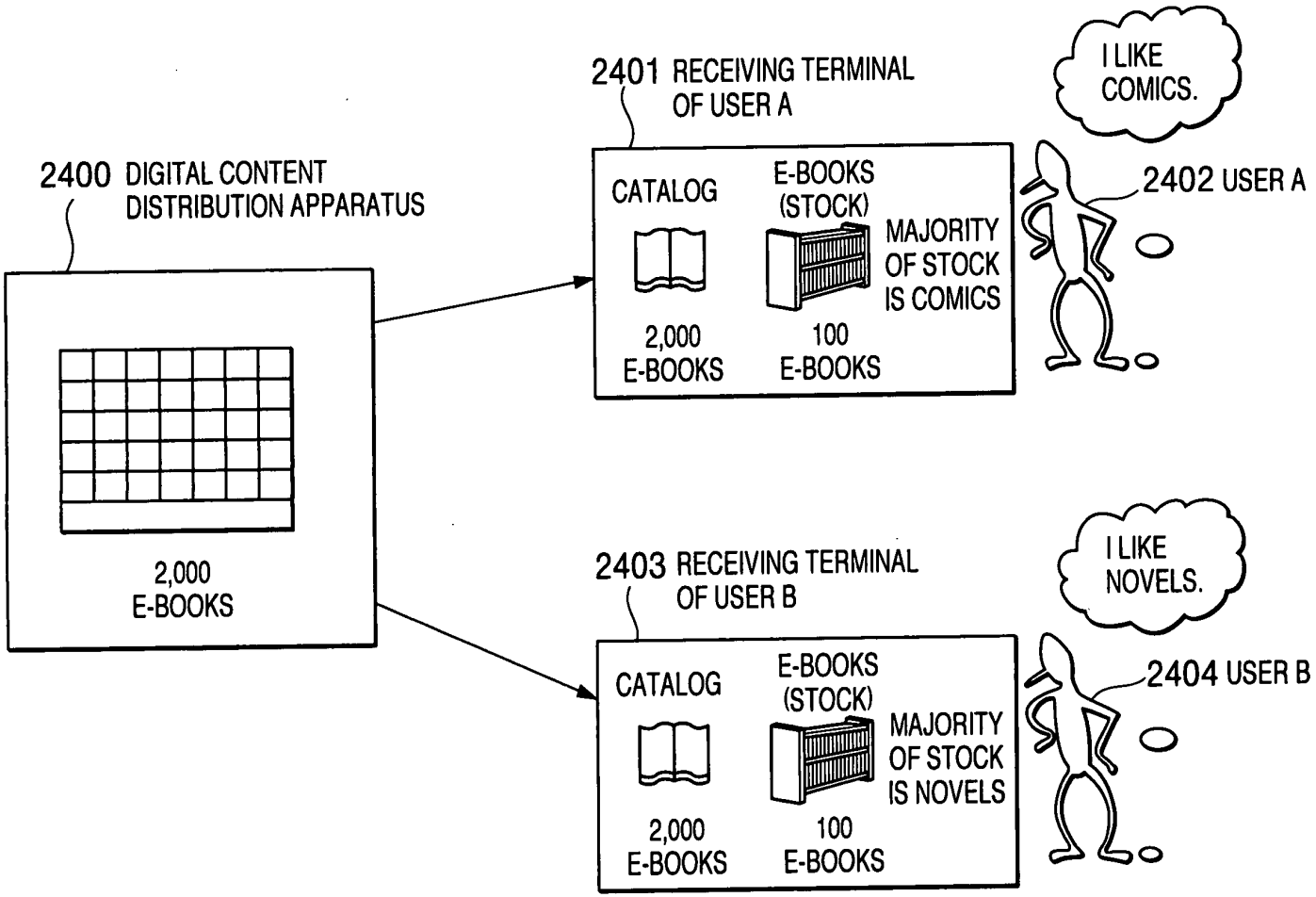

2400 DIGITAL CONTENT DISTRIBUTION APPARATUS
2,000 E-BOOKS
2401 RECEIVING TERMINAL OF USER A
CATALOG
E-BOOKS (STOCK)
MAJORITY OF STOCK IS COMICS
2,000 E-BOOKS
100 E-BOOKS
I LIKE COMICS.
2402 USER A
2403 RECEIVING TERMINAL OF USER B
CATALOG
E-BOOKS (STOCK)
MAJORITY OF STOCK IS NOVELS
2,000 E-BOOKS
100 E-BOOKS
I LIKE NOVELS.
2404 USER B

FIG.26

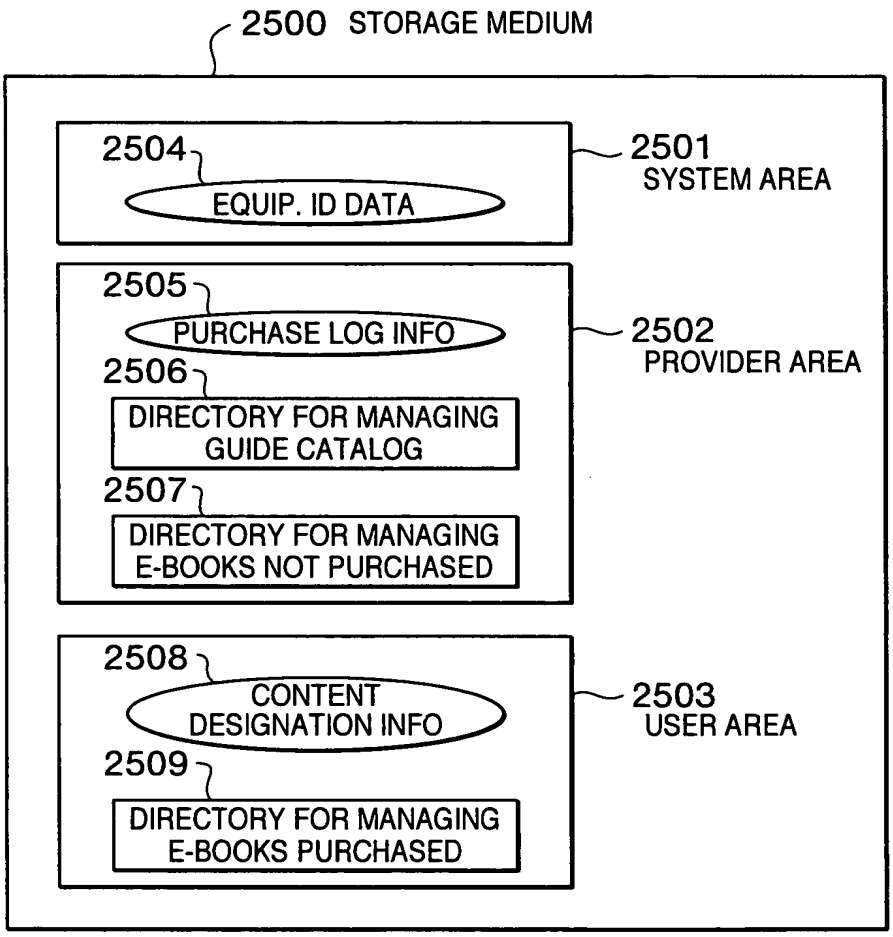
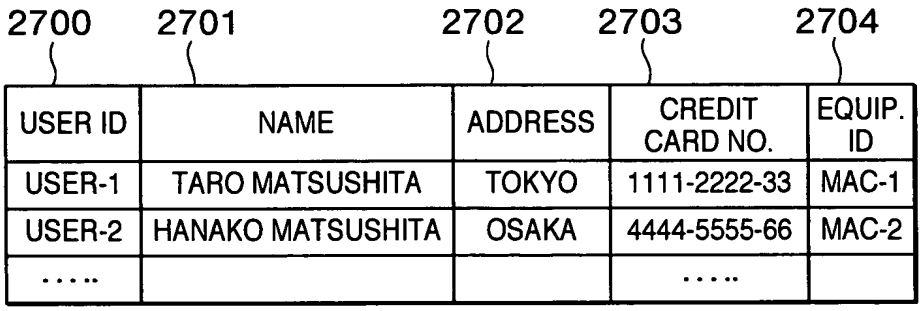

2500 STORAGE MEDIUM
2504
EQUIP. ID DATA
2501
SYSTEM AREA
2505
PURCHASE LOG INFO
2506
DIRECTORY FOR MANAGING GUIDE CATALOG
2507
DIRECTORY FOR MANAGING E-BOOKS NOT PURCHASED
2502
PROVIDER AREA
2508
CONTENT DESIGNATION INFO
2509
DIRECTORY FOR MANAGING E-BOOKS PURCHASED
2503
USER AREA

FIG.27

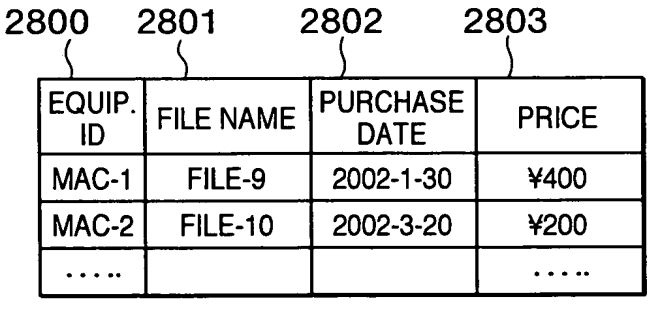
2600 E-BOOK ITEM NO.	2601 E-BOOK TITLE	2602 AUTHOR NAME	2603 GENRE	2604 PUBLICATION DATE	2605 SUMMARY	2608 PRICE	2606 DATA SIZE	2607 FILE NAME
1	TITLE1	AUTHOR-1	NOVELS	2002-6-1	.....	¥300	10M	FILE-1
2	TITLE2	AUTHOR-2	COMICS	2002-6-1	.....	¥500	5M	FILE-2
3	TITLE3	AUTHOR-3	NOVELS	2002-6-2	.....	¥300	5M	FILE-3
4	TITLE4	AUTHOR-4	COMICS	2002-6-3	.....	¥400	10M	FILE-4
5	TITLE5	AUTHOR-5	WEEKLY MAGAZINE	2002-6-4	.....	¥200	10M	FILE-5
6	TITLE6	AUTHOR-6	HISTORY	2002-6-4	.....	¥1000	5M	FILE-6
7	TITLE7	AUTHOR-7	MONTHLY MAGAZINE	2002-6-8	.....	¥300	10M	FILE-7
8	TITLE8	AUTHOR-8	NOVELS	2002-6-8	.....	¥300	15M	FILE-8
9	TITLE9	AUTHOR-9	COMICS	2002-6-9	.....	¥500	10M	FILE-9
10	TITLE10	AUTHOR-10	NOVELS	2002-6-9	.....	¥300	5M	FILE-10
11	TITLE11	AUTHOR-11	COMICS	2002-6-10	.....	¥400	10M	FILE-11
12	TITLE5	AUTHOR-5	WEEKLY MAGAZINE	2002-6-10	.....	¥200	5M	FILE-12
13	TITLE13	AUTHOR-13	HISTORY	2002-6-11	.....	¥900	10M	FILE-13
14	TITLE14	AUTHOR-14	COMICS	2002-6-8	.....	¥300	5M	FILE-14
15	TITLE15	AUTHOR-15	NOVELS	2002-6-10	.....	¥200	5M	FILE-15
16	TITLE16	AUTHOR-16	NOVELS	2002-6-10	.....	¥300	5M	FILE-16
17	TITLE17	AUTHOR-17	COMICS	2002-6-13	.....	¥500	10M	FILE-17
18	TITLE18	AUTHOR-18	NOVELS	2002-6-13	.....	¥300	5M	FILE-18
19	TITLE19	AUTHOR-19	COMICS	2002-6-13	.....	¥400	10M	FILE-19
20	TITLE5	AUTHOR-5	WEEKLY MAGAZINE	2002-6-16	.....	¥200	10M	FILE-20

FIG.28



USER ID	NAME	ADDRESS	CREDIT CARD NO.	EQUIP. ID
USER-1	TARO MATSUSHITA	TOKYO	1111-2222-33	MAC-1
USER-2	HANAKO MATSUSHITA	OSAKA	4444-5555-66	MAC-2
.....			.....	

FIG.29



EQUIP. ID	FILE NAME	PURCHASE DATE	PRICE
MAC-1	FILE-9	2002-1-30	¥400
MAC-2	FILE-10	2002-3-20	¥200
.....			.....

FIG.30

2900 EQUIP. ID	2901 LAST DOWNLOAD DATE	2902 CAPACITY	2903 SPACE AVAILABLE	2904 E-BOOKS STOCKED	2905 E-BOOKS DUE TO BE REMOVED	2906 E-BOOKS DUE TO BE DOWNLOAD & STOCKED
MAC-1	2002-6-9	2G	5M	1~14	1,3,5,6,7	15~20 (45M)
.....			.....			.....

FIG.31

3000	COMMAND NAME	AUTOMATIC DOWNLOAD REQUEST
3001	EQUIP. ID	MAC-1
3002	DATA FORMAT	TEXT,HTML,JPG

FIG.32

3100 FILE NAME	3101 PURCHASE DATE	3102 PRICE
9	2002-1-30	¥400
.....		.....

FIG.33

3200	COMMAND NAME	SEND PURCHASE LOG
3201	EQUIP. ID	MAC-1
3202	PURCHASE QTY.	1
3203	FILE NAME [1]	9
3203	PURCHASE DATE [1]	2002-1-30
3203	PRICE [1]	¥400

FIG.34

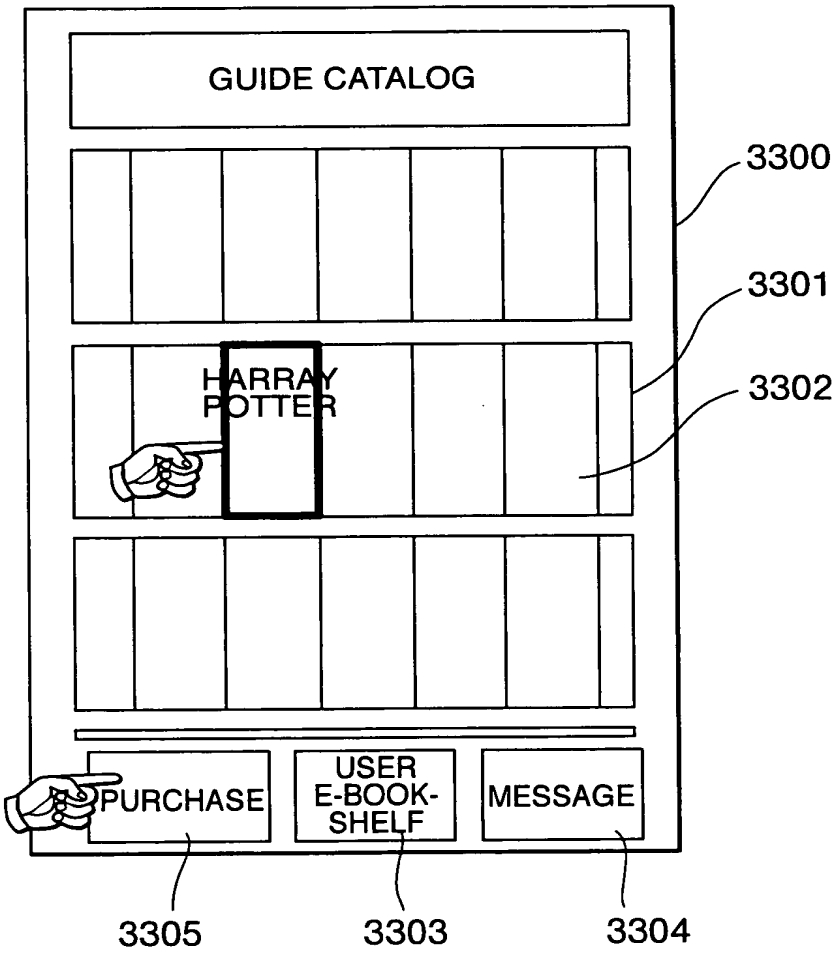

GUIDE CATALOG
3300
3301
HARRAY POTTER
3302
PURCHASE
USER E-BOOK-SHELF
MESSAGE
3305
3303
3304

FIG.35

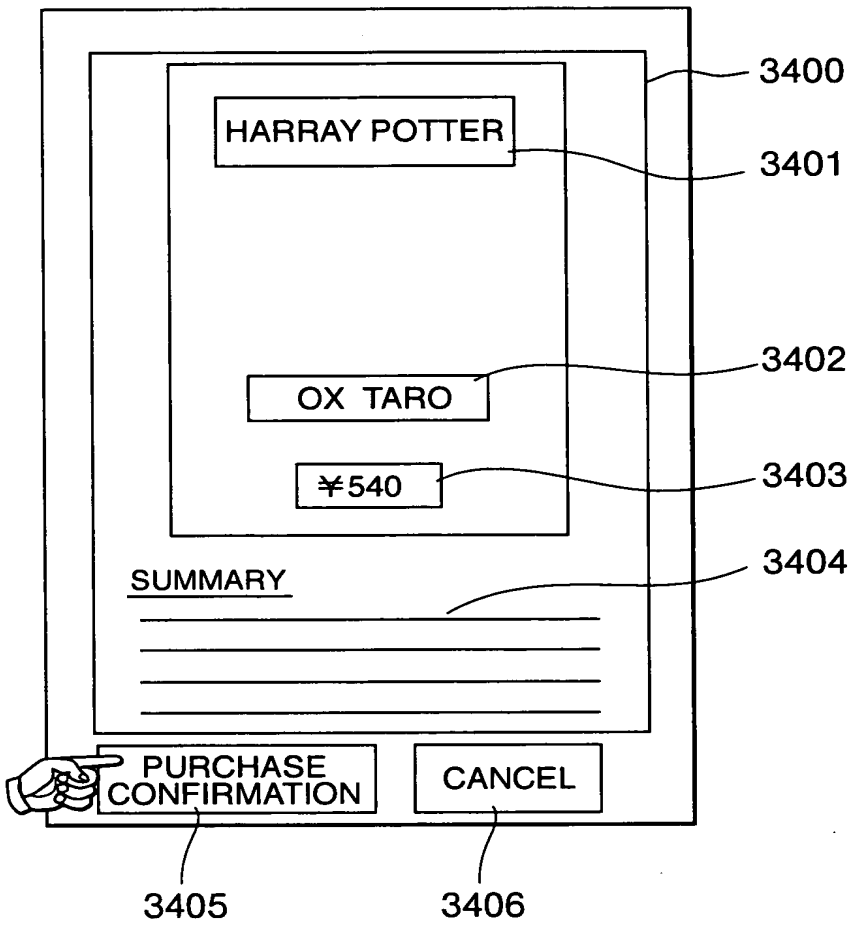

3400
HARRAY POTTER
3401
3402
OX TARO
3403
¥540
3404
SUMMARY
PURCHASE CONFIRMATION
CANCEL
3405
3406

FIG.36

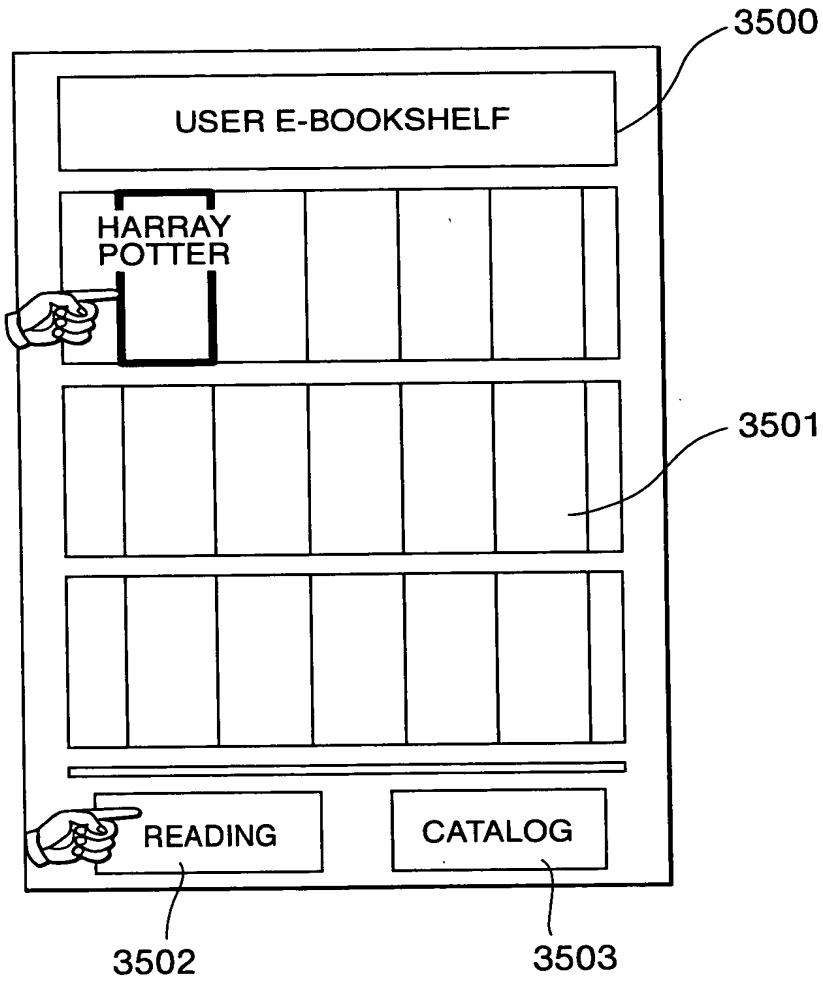

3500
USER E-BOOKSHELF
HARRAY POTTER
3501
READING
CATALOG
3502
3503

FIG.37

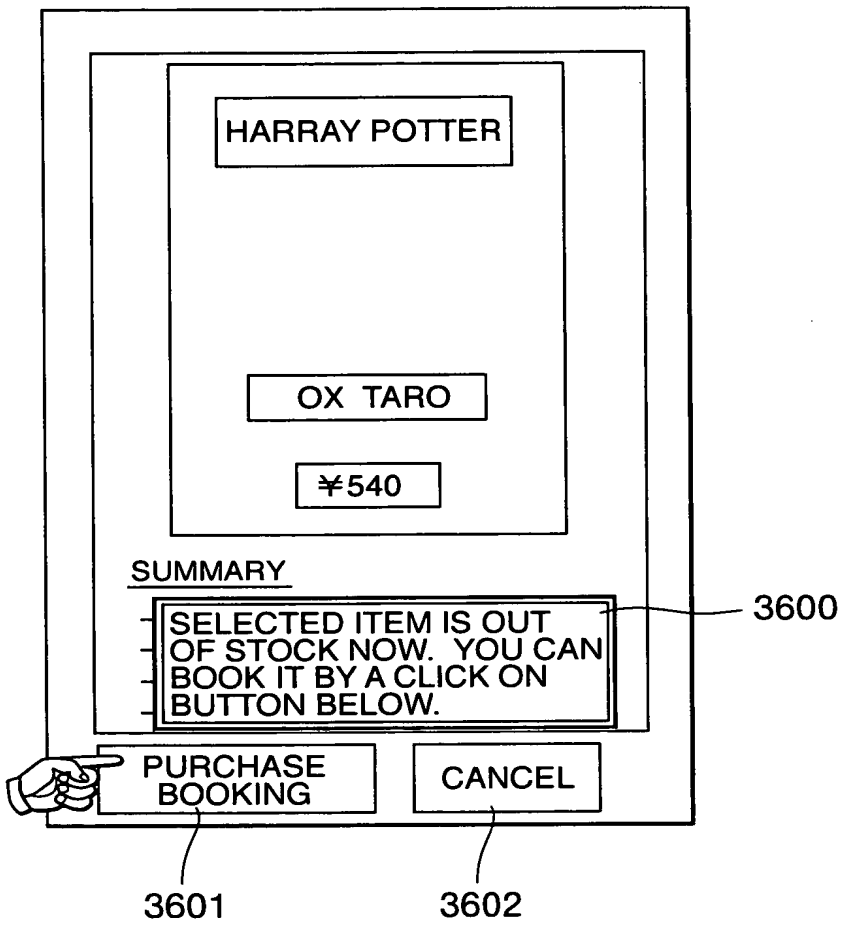

HARRAY POTTER
OX TARO
¥540
SUMMARY
SELECTED ITEM IS OUT OF STOCK NOW. YOU CAN BOOK IT BY A CLICK ON BUTTON BELOW.
3600
PURCHASE BOOKING
CANCEL
3601
3602

FIG.38

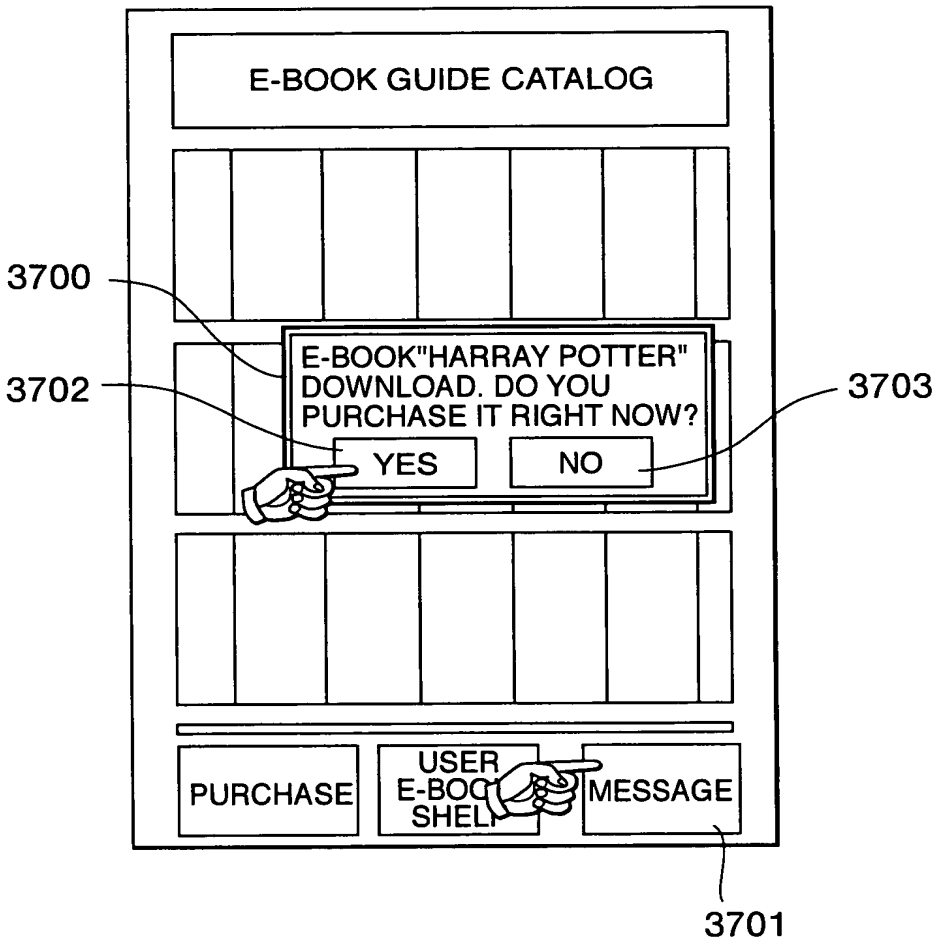

E-BOOK GUIDE CATALOG
3700
E-BOOK"HARRAY POTTER"
DOWNLOAD. DO YOU
PURCHASE IT RIGHT NOW?
3702
YES
NO
3703
PURCHASE
USER
E-BOO
SHEL
MESSAGE
3701

FIG.39

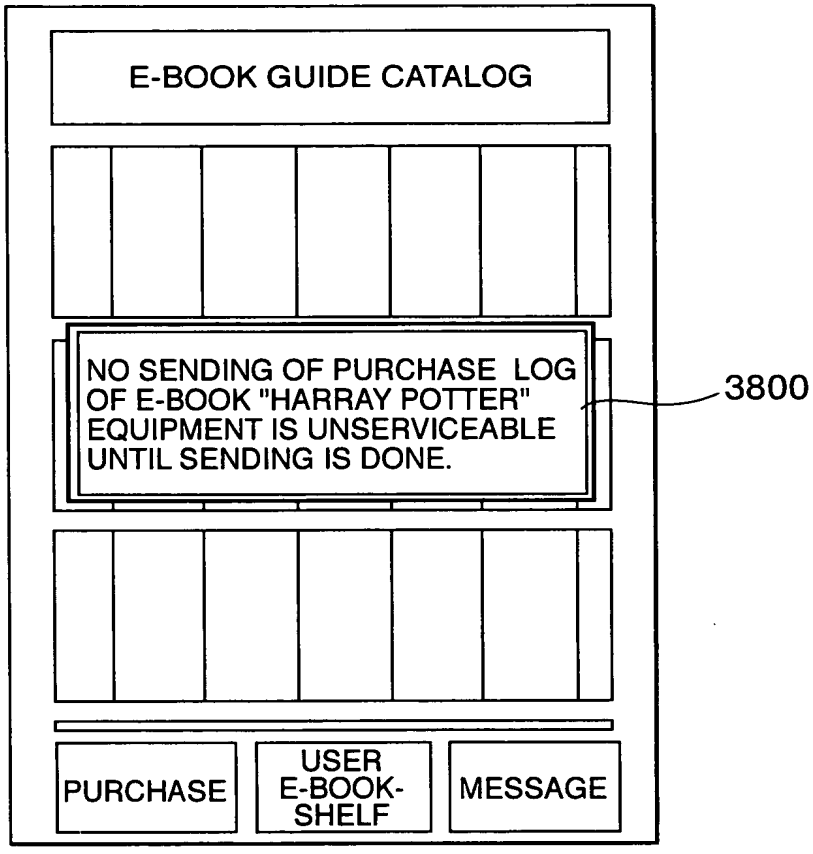

E-BOOK GUIDE CATALOG
NO SENDING OF PURCHASE LOG OF E-BOOK "HARRAY POTTER" EQUIPMENT IS UNSERVICEABLE UNTIL SENDING IS DONE.
3800
PURCHASE
USER E-BOOK-SHELF
MESSAGE

FIG.40

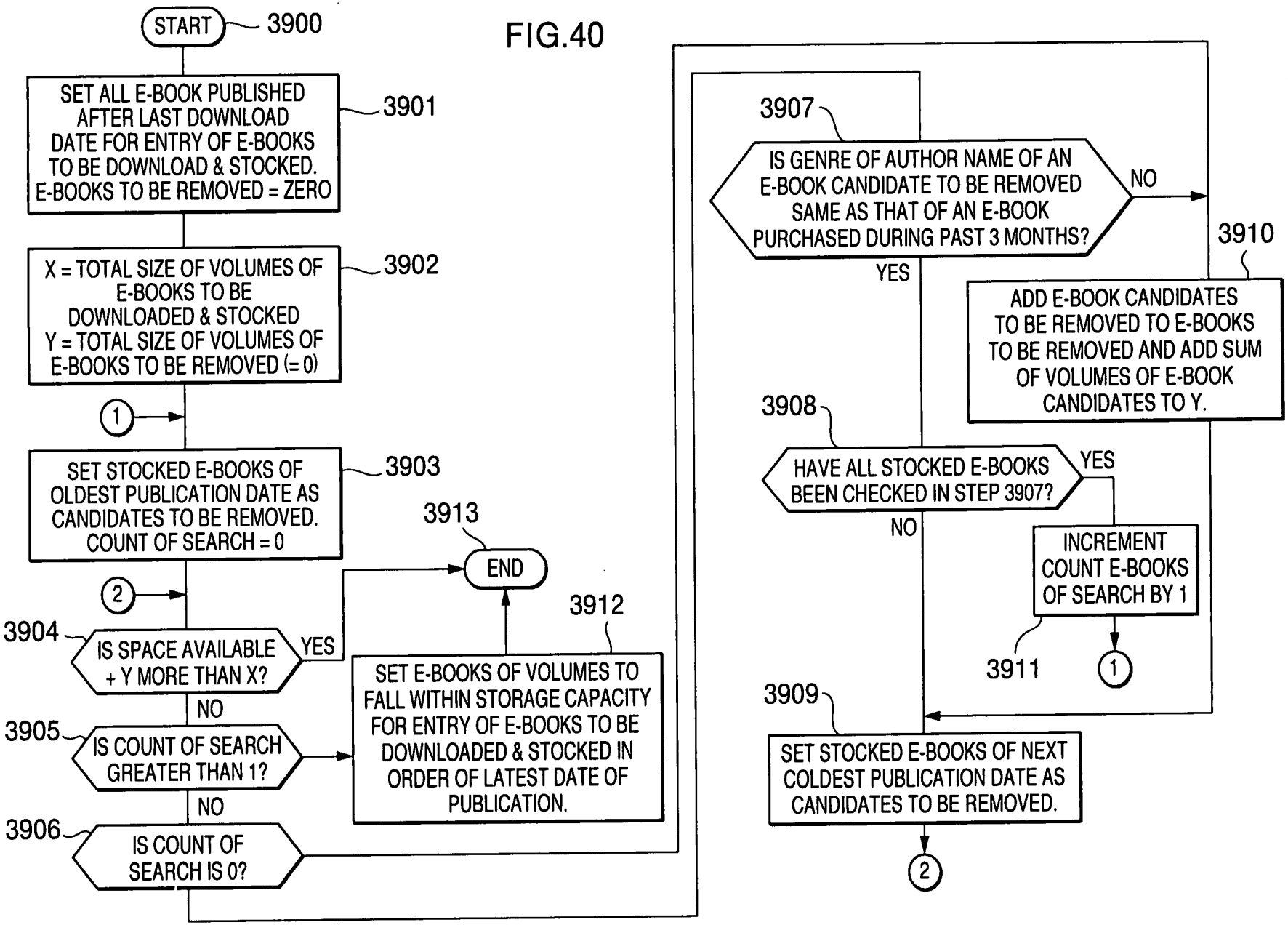

START
3900
SET ALL E-BOOK PUBLISHED AFTER LAST DOWNLOAD DATE FOR ENTRY OF E-BOOKS TO BE DOWNLOAD & STOCKED. E-BOOKS TO BE REMOVED = ZERO
3901
X = TOTAL SIZE OF VOLUMES OF E-BOOKS TO BE DOWNLOADED & STOCKED Y = TOTAL SIZE OF VOLUMES OF E-BOOKS TO BE REMOVED (= 0)
3902
1
SET STOCKED E-BOOKS OF OLDEST PUBLICATION DATE AS CANDIDATES TO BE REMOVED. COUNT OF SEARCH = 0
3903
2
3904
IS SPACE AVAILABLE + Y MORE THAN X?
YES
NO
3905
IS COUNT OF SEARCH GREATER THAN 1?
NO
3906
IS COUNT OF SEARCH IS 0?
3913
END
3912
SET E-BOOKS OF VOLUMES TO FALL WITHIN STORAGE CAPACITY FOR ENTRY OF E-BOOKS TO BE DOWNLOADED & STOCKED IN ORDER OF LATEST DATE OF PUBLICATION.
3907
IS GENRE OF AUTHOR NAME OF AN E-BOOK CANDIDATE TO BE REMOVED SAME AS THAT OF AN E-BOOK PURCHASED DURING PAST 3 MONTHS?
NO
YES
3910
ADD E-BOOK CANDIDATES TO BE REMOVED TO E-BOOKS TO BE REMOVED AND ADD SUM OF VOLUMES OF E-BOOK CANDIDATES TO Y.
3908
HAVE ALL STOCKED E-BOOKS BEEN CHECKED IN STEP 3907?
YES
NO
INCREMENT COUNT E-BOOKS OF SEARCH BY 1
3911
1
3909
SET STOCKED E-BOOKS OF NEXT COLDEST PUBLICATION DATE AS CANDIDATES TO BE REMOVED.
2

FIG.41

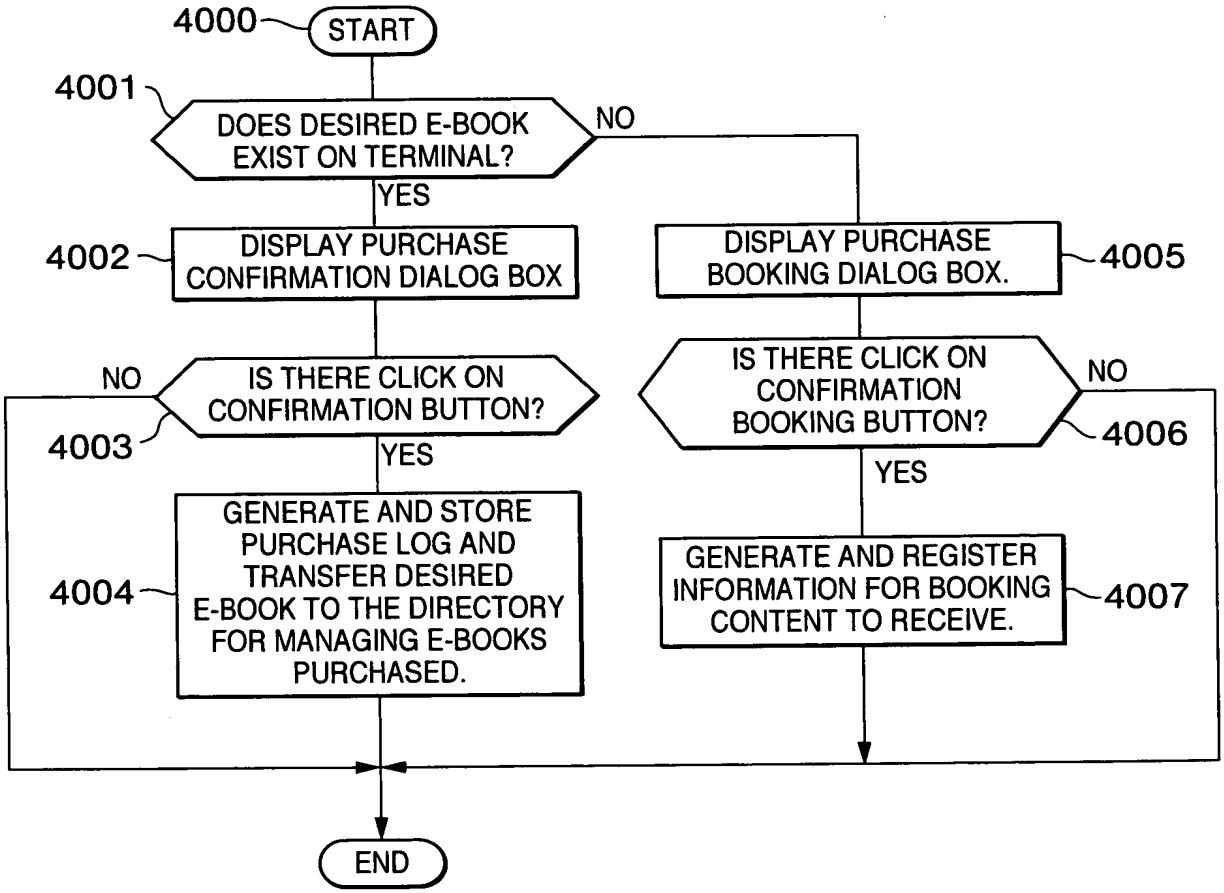

4000
START
4001
DOES DESIRED E-BOOK EXIST ON TERMINAL?
NO
YES
4002
DISPLAY PURCHASE CONFIRMATION DIALOG BOX
DISPLAY PURCHASE BOOKING DIALOG BOX.
4005
NO
IS THERE CLICK ON CONFIRMATION BUTTON?
4003
YES
IS THERE CLICK ON CONFIRMATION BOOKING BUTTON?
NO
4006
YES
GENERATE AND STORE PURCHASE LOG AND TRANSFER DESIRED E-BOOK TO THE DIRECTORY FOR MANAGING E-BOOKS PURCHASED.
4004
GENERATE AND REGISTER INFORMATION FOR BOOKING CONTENT TO RECEIVE.
4007
END

FIG.42

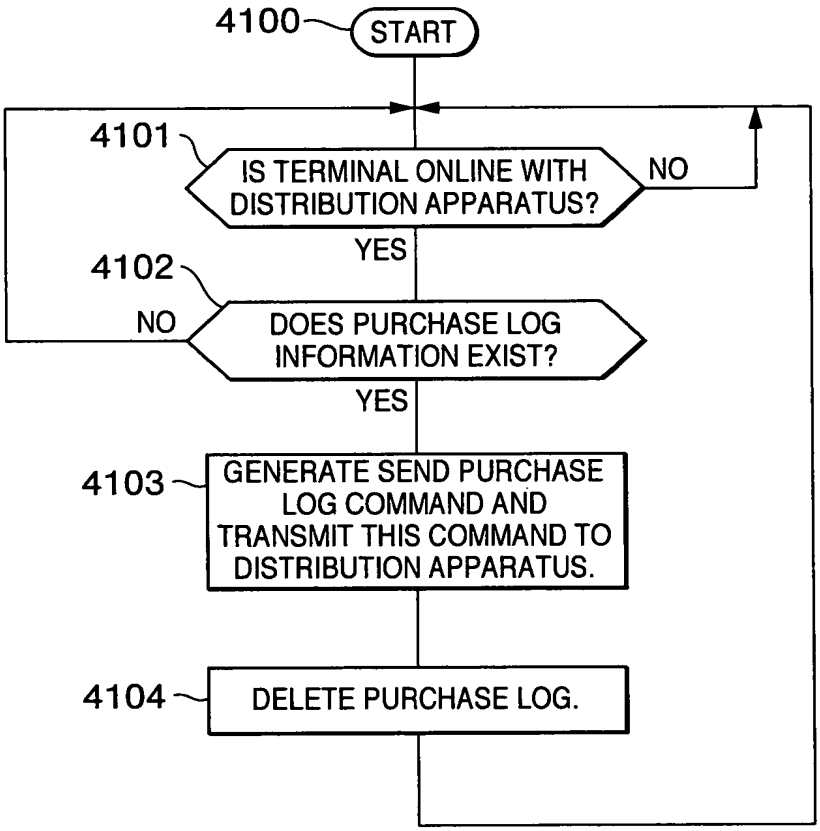

4100
START
4101
IS TERMINAL ONLINE WITH DISTRIBUTION APPARATUS?
NO
YES
4102
NO
DOES PURCHASE LOG INFORMATION EXIST?
YES
4103
GENERATE SEND PURCHASE LOG COMMAND AND TRANSMIT THIS COMMAND TO DISTRIBUTION APPARATUS.
4104
DELETE PURCHASE LOG.

FIG.43

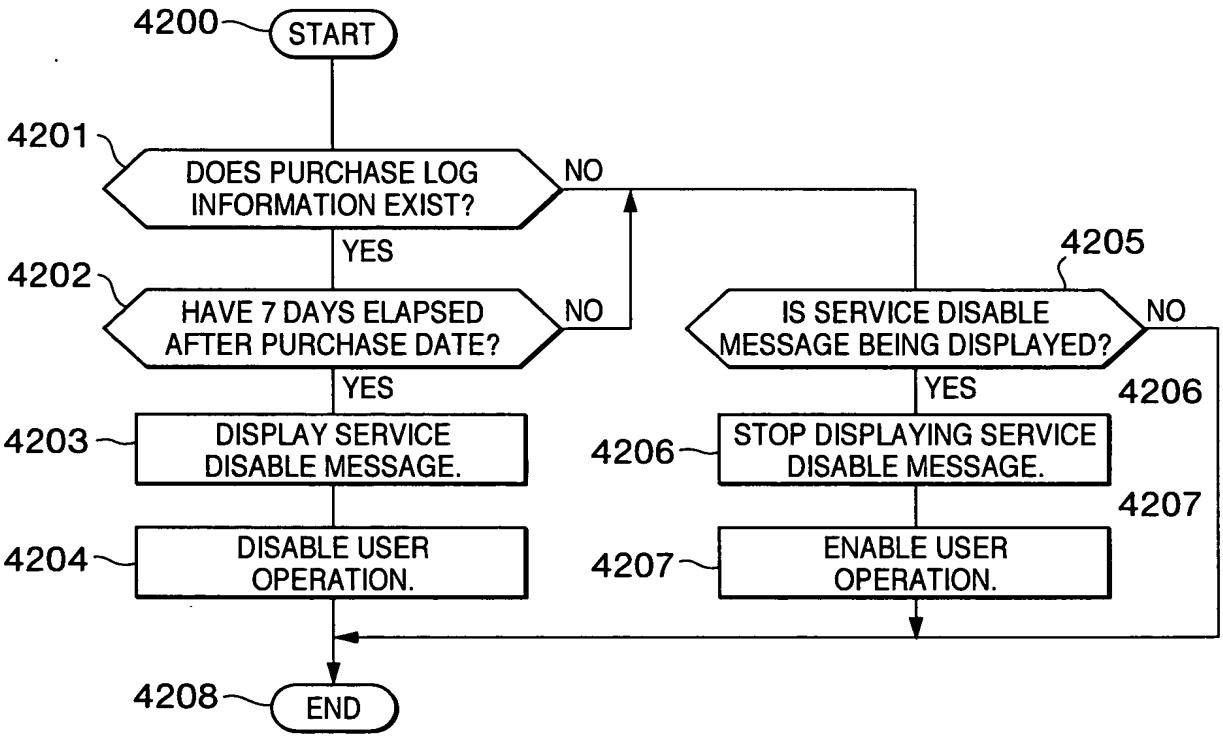

4200
START
4201
DOES PURCHASE LOG INFORMATION EXIST?
NO
YES
4202
HAVE 7 DAYS ELAPSED AFTER PURCHASE DATE?
NO
YES
4203
DISPLAY SERVICE DISABLE MESSAGE.
4204
DISABLE USER OPERATION.
4205
IS SERVICE DISABLE MESSAGE BEING DISPLAYED?
NO
YES
4206
4206
STOP DISPLAYING SERVICE DISABLE MESSAGE.
4207
4207
ENABLE USER OPERATION.
4208
END

FIG.44

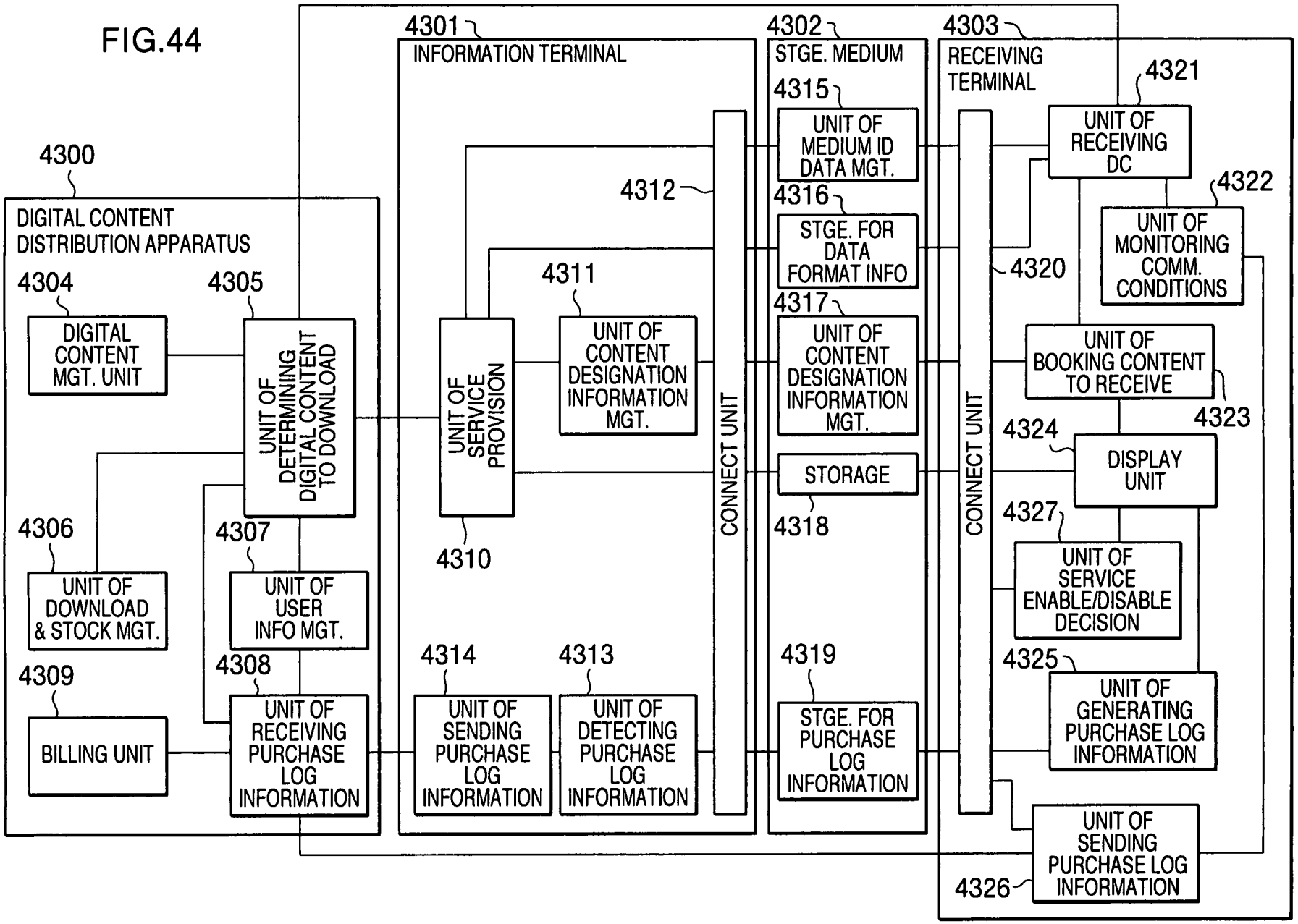

4300
DIGITAL CONTENT DISTRIBUTION APPARATUS
4304
DIGITAL CONTENT MGT. UNIT
4305
UNIT OF DETERMINING DIGITAL CONTENT TO DOWNLOAD
4306
UNIT OF DOWNLOAD & STOCK MGT.
4307
UNIT OF USER INFO MGT.
4308
UNIT OF RECEIVING PURCHASE LOG INFORMATION
4309
BILLING UNIT
4301
INFORMATION TERMINAL
4310
UNIT OF SERVICE PROVISION
4311
UNIT OF CONTENT DESIGNATION INFORMATION MGT.
4312
4313
UNIT OF DETECTING PURCHASE LOG INFORMATION
4314
UNIT OF SENDING PURCHASE LOG INFORMATION
CONNECT UNIT
4302
STGE. MEDIUM
4315
UNIT OF MEDIUM ID DATA MGT.
4316
STGE. FOR DATA FORMAT INFO
4317
UNIT OF CONTENT DESIGNATION INFORMATION MGT.
STORAGE
4318
4319
STGE. FOR PURCHASE LOG INFORMATION
4303
RECEIVING TERMINAL
CONNECT UNIT
4320
4321
UNIT OF RECEIVING DC
4322
UNIT OF MONITORING COMM. CONDITIONS
UNIT OF BOOKING CONTENT TO RECEIVE
4323
4324
DISPLAY UNIT
4327
UNIT OF SERVICE ENABLE/DISABLE DECISION
4325
UNIT OF GENERATING PURCHASE LOG INFORMATION
UNIT OF SENDING PURCHASE LOG INFORMATION
4326

FIG.45

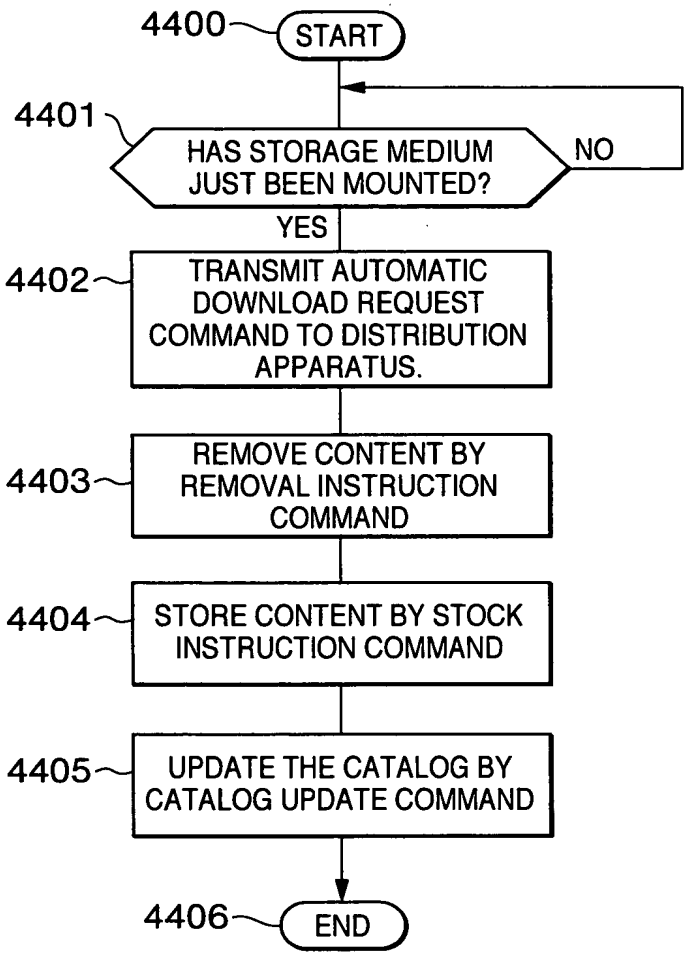

4400
START
4401
HAS STORAGE MEDIUM JUST BEEN MOUNTED?
NO
YES
4402
TRANSMIT AUTOMATIC DOWNLOAD REQUEST COMMAND TO DISTRIBUTION APPARATUS.
4403
REMOVE CONTENT BY REMOVAL INSTRUCTION COMMAND
4404
STORE CONTENT BY STOCK INSTRUCTION COMMAND
4405
UPDATE THE CATALOG BY CATALOG UPDATE COMMAND
4406
END

FIG.46

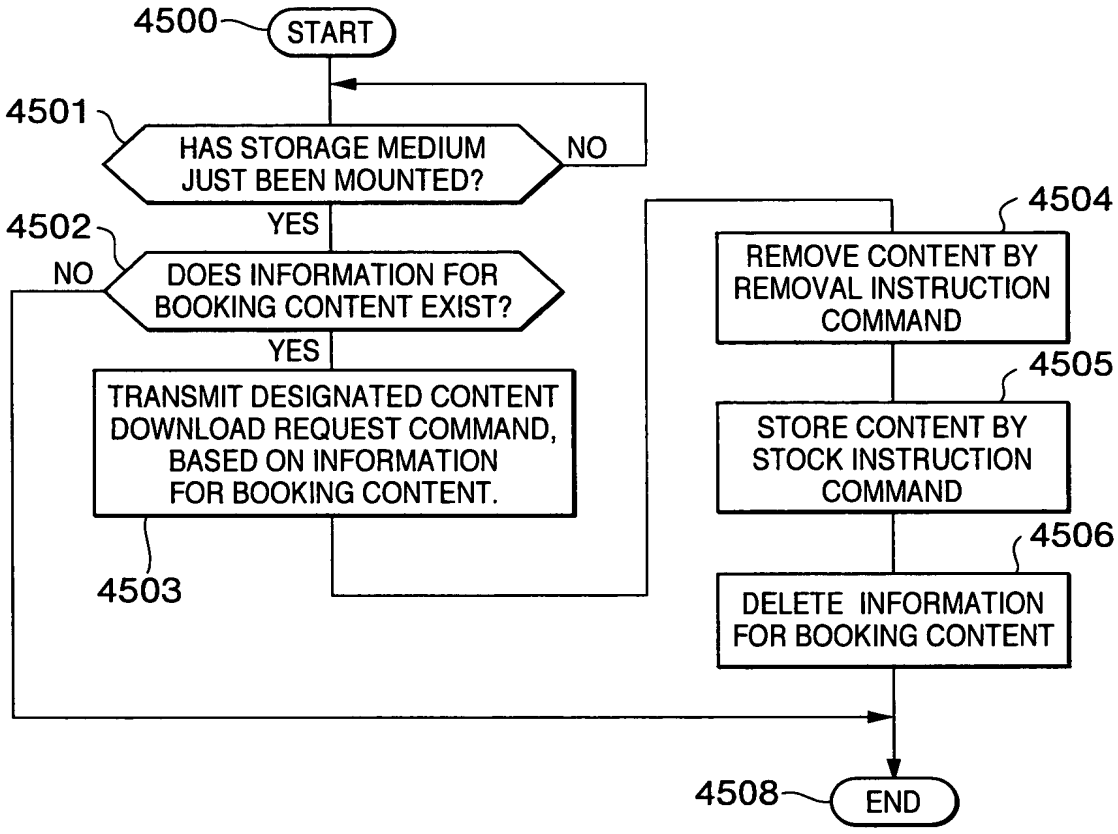

4500
START
4501
HAS STORAGE MEDIUM JUST BEEN MOUNTED?
NO
YES
4502
NO
DOES INFORMATION FOR BOOKING CONTENT EXIST?
YES
TRANSMIT DESIGNATED CONTENT DOWNLOAD REQUEST COMMAND, BASED ON INFORMATION FOR BOOKING CONTENT.
4503
4504
REMOVE CONTENT BY REMOVAL INSTRUCTION COMMAND
4505
STORE CONTENT BY STOCK INSTRUCTION COMMAND
4506
DELETE INFORMATION FOR BOOKING CONTENT
4508
END

FIG.47

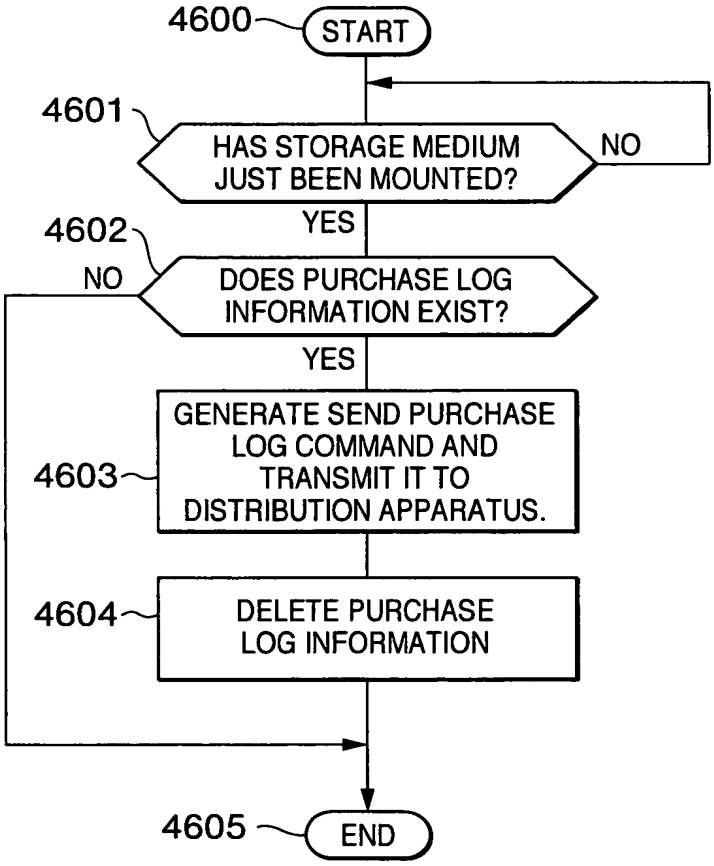

4600
START
4601
HAS STORAGE MEDIUM JUST BEEN MOUNTED?
NO
YES
4602
NO
DOES PURCHASE LOG INFORMATION EXIST?
YES
4603
GENERATE SEND PURCHASE LOG COMMAND AND TRANSMIT IT TO DISTRIBUTION APPARATUS.
4604
DELETE PURCHASE LOG INFORMATION
4605
END

FIG.48

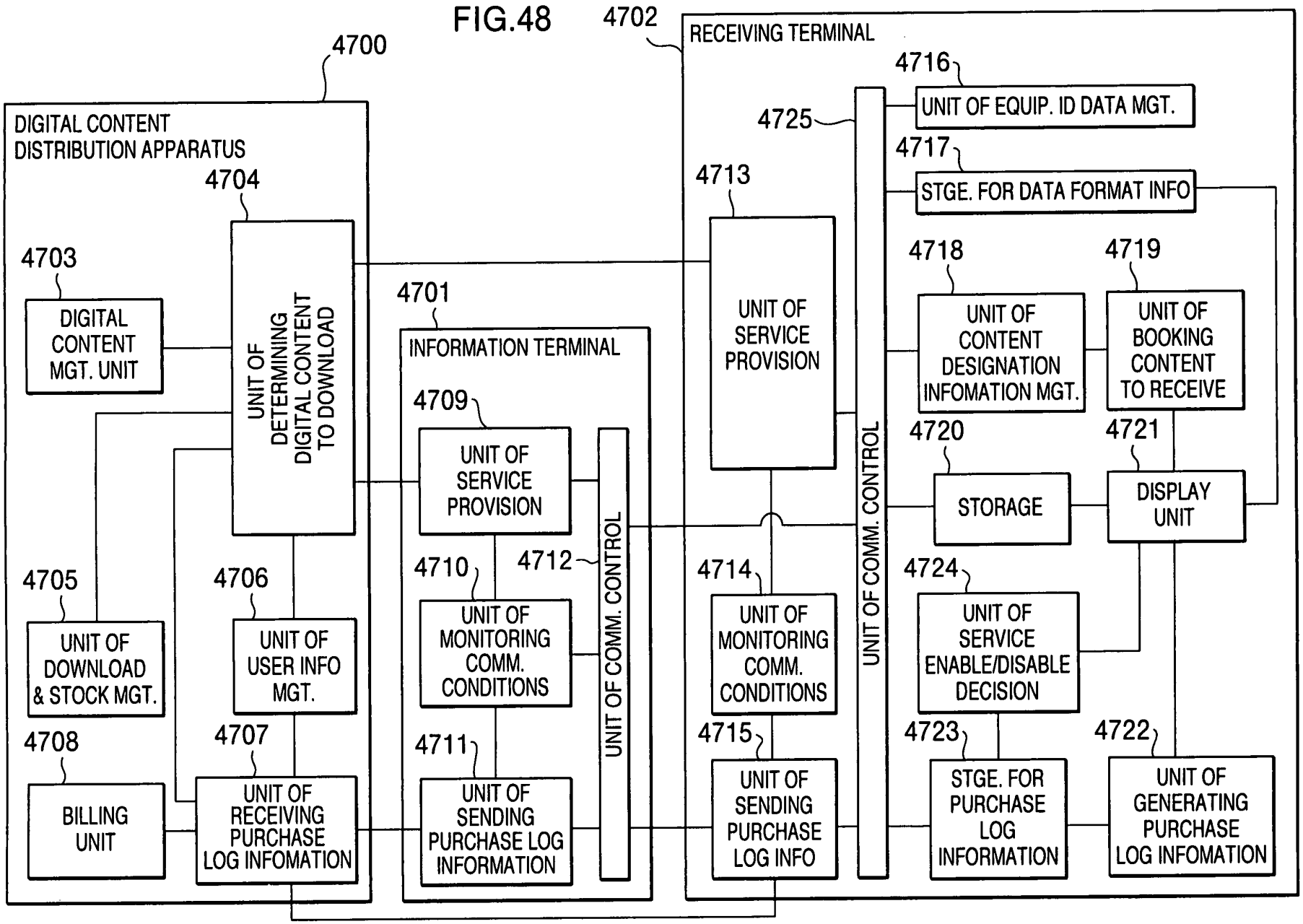

4700
DIGITAL CONTENT DISTRIBUTION APPARATUS
4704
4703
DIGITAL CONTENT MGT. UNIT
UNIT OF DETERMINING DIGITAL CONTENT TO DOWNLOAD
4705
UNIT OF DOWNLOAD & STOCK MGT.
4706
UNIT OF USER INFO MGT.
4708
BILLING UNIT
4707
UNIT OF RECEIVING PURCHASE LOG INFOMATION
4701
INFORMATION TERMINAL
4709
UNIT OF SERVICE PROVISION
4710
UNIT OF MONITORING COMM. CONDITIONS
4712
UNIT OF COMM. CONTROL
4711
UNIT OF SENDING PURCHASE LOG INFORMATION
4702
RECEIVING TERMINAL
4713
UNIT OF SERVICE PROVISION
4714
UNIT OF MONITORING COMM. CONDITIONS
4715
UNIT OF SENDING PURCHASE LOG INFO
4725
UNIT OF COMM. CONTROL
4716
UNIT OF EQUIP. ID DATA MGT.
4717
STGE. FOR DATA FORMAT INFO
4718
UNIT OF CONTENT DESIGNATION INFOMATION MGT.
4719
UNIT OF BOOKING CONTENT TO RECEIVE
4720
STORAGE
4721
DISPLAY UNIT
4724
UNIT OF SERVICE ENABLE/DISABLE DECISION
4723
STGE. FOR PURCHASE LOG INFORMATION
4722
UNIT OF GENERATING PURCHASE LOG INFOMATION

FIG.49

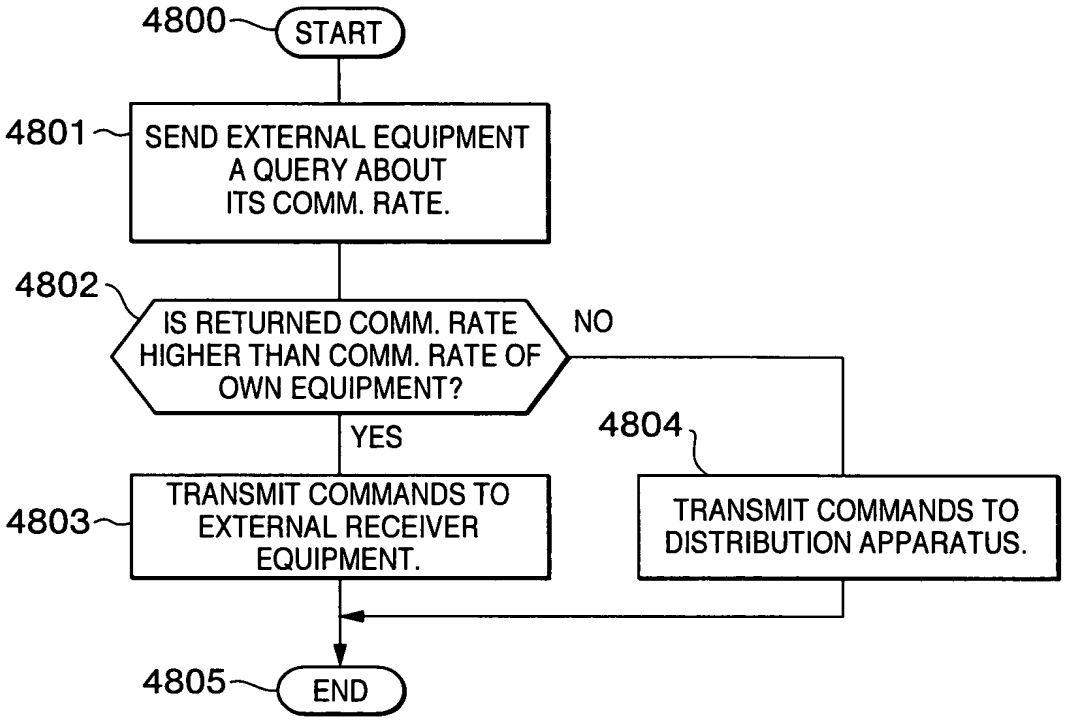
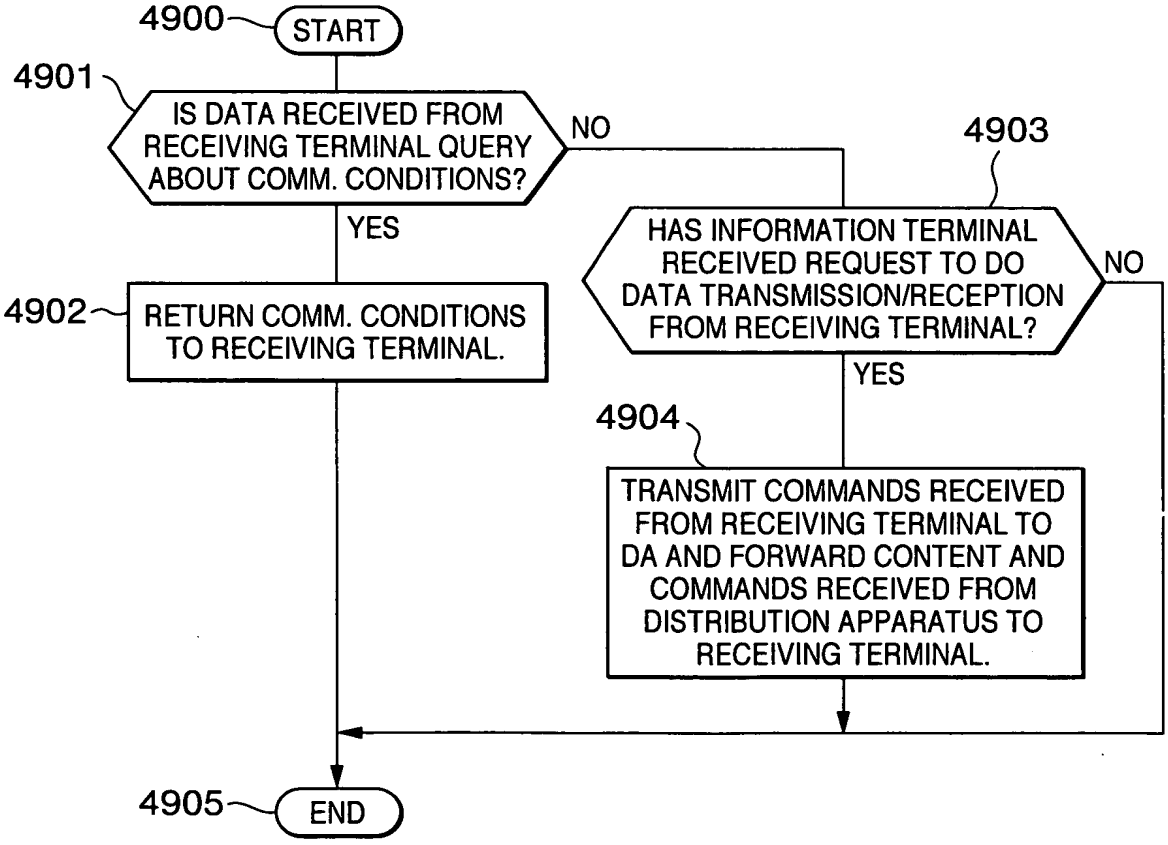

4800
START
4801
SEND EXTERNAL EQUIPMENT A QUERY ABOUT ITS COMM. RATE.
4802
IS RETURNED COMM. RATE HIGHER THAN COMM. RATE OF OWN EQUIPMENT?
NO
YES
4804
TRANSMIT COMMANDS TO DISTRIBUTION APPARATUS.
4803
TRANSMIT COMMANDS TO EXTERNAL RECEIVER EQUIPMENT.
4805
END

FIG.50


4900
START
4901
IS DATA RECEIVED FROM RECEIVING TERMINAL QUERY ABOUT COMM. CONDITIONS?
NO
YES
4903
HAS INFORMATION TERMINAL RECEIVED REQUEST TO DO DATA TRANSMISSION/RECEPTION FROM RECEIVING TERMINAL?
NO
YES
4902
RETURN COMM. CONDITIONS TO RECEIVING TERMINAL.
4904
TRANSMIT COMMANDS RECEIVED FROM RECEIVING TERMINAL TO DA AND FORWARD CONTENT AND COMMANDS RECEIVED FROM DISTRIBUTION APPARATUS TO RECEIVING TERMINAL.
4905
END